

**MONTGOMERY COUNTY HISTORIC PRESERVATION COMMISSION**  
**STAFF REPORT**

<b>Address:</b>	23515 Frederick Road to 23200 Stringtown Road, Clarksburg	<b>Meeting Date:</b>	11/18/2020
<b>Resource:</b>	Multiple Resources <b>Clarksburg Historic District</b>	<b>Report Date:</b>	11/11/2020
<b>Applicant:</b>	MCDOT (Yasamin Esmaili, Agent)	<b>Public Notice:</b>	11/4/2020
<b>Review:</b>	HAWP	<b>Tax Credit:</b>	N/A
<b>Case Number:</b>	13/10-20C	<b>Staff:</b>	Michael Kyne

**PROPOSAL:** Construction of shared-use path with associated hardscape, lighting, grading, tree removals

**STAFF RECOMMENDATION:**

Staff recommends that the HPC **approve** the HAWP application.

**ARCHITECTURAL DESCRIPTION:**

**SIGNIFICANCE:** Multiple Resources within the Clarksburg Historic District  
**STYLE:** Various  
**DATE:** Platted Early 1790s



***Fig. 1: Clarksburg Historic District.***

## **HISTORIC CONTEXT:**

The following was excerpted from *Places From the Past: The Tradition of Gardez Bien in Montgomery County, Maryland*:

### 13/10 CLARKSBURG HISTORIC DISTRICT (Platted Early 1790s)

Early in the county's history, Clarksburg was a substantial center of commerce and transportation. John Clark surveyed the land and subdivided lots along Frederick Road in the early 1790s, yet the town's origins extended back to the mid-1700s. Michael Dowden built a hotel and tavern about 1754. A popular stop along the well-traveled Great Road between Frederick and Georgetown, Dowden's Ordinary is said to have provided lodging and entertainment for such well-known travelers as General E. Braddock, George Washington, and Andrew Jackson. According to tradition, John Clark's father William, from Lancaster County, Pennsylvania, had chosen this location, at the intersection of two Indian trails, as early as 1735 as a site for trading with Native Americans. His trading post may have influenced Dowden's choice for locating his ordinary.

John Clark built a general store and became the community's first postmaster. The post office, established 1800, was one of the first in the county. By 1850, the town was the third most populous in the county, and the residents numbered 250 by 1879.

One of the earliest structures in the community is found at the Clark-Waters House, 23346 Frederick Road. According to tradition, John Clark constructed the rear section in 1797. The building was enlarged and updated in the 1840s with the Italianate-style front section, under the ownership of Clark's daughter and son-in-law Mary and William Willson. One of the few remaining log buildings in the community is found at 23415 Frederick Road. Thomas Kirk probably built the John Leaman House (23415), now covered with clapboard siding, in 1801. John Leaman, a carpenter, purchased the house in 1871 and built the substantial rear addition around 1890.

John Clark, a Methodist, was a leader in organizing the Clarksburg Methodist Episcopal Church in 1788. The church has one of the oldest continuous Methodist congregations in the County. A log chapel was built on this site in 1794, a brick structure in 1853, and the present Gothic Revival-style church in 1909. As a major stagecoach stop between Frederick and Georgetown, Clarksburg supported several inns and taverns. By the mid-1800s, the town also included general stores, a tannery and blacksmiths, and wheelwrights. William Willson probably built Willson's Store, 23341 Frederick Road, around 1842. In 1879, Clarksburg had 250 residents, making it the third most populous town in the County. The Queen Anne-style house at 23310 Frederick Road, known as Hammer Hill, as built c.1891-1900 by Clarksburg physician Dr. James Deetz and his wife Sarah. The name, Hammer Hill, comes from the tract name given this land in 1752. The William Hurley Shoe Shop, 23421 Frederick Road, probably built around 1842, is typical of early rural commercial structures in its simplicity and small scale. In the early 20th-century, it housed Helen Hurley's millinery shop. The house, located behind the shop, originally consisted of the rear portion that was built by Arnold Warfield about 1800. The building may contain an early log section. Hurley family owners of the house and shoe shop included shoemaker William Hurley and Clarksburg Brass Band organizer J. Mortimer Hurley.

Clarksburg has historically been a bi-racial town. While many African Americans settled, after the Civil War, in communities separate from white settlements, freed slaves in Clarksburg built houses in and around the town. In 1885, John Henry Wims built his frame house in Clarksburg's center, at 23311 Frederick Road. The location of his dwelling near the post office was a convenience for Wims, one of the few black mail carriers working in the county.



One of the County's last and most elaborate remaining examples of a two-room schoolhouse is the Clarksburg School, 13530 Redgrave Place, built in 1909. One of the County's last and most elaborate remaining examples of the two-room schoolhouse, the Clarksburg School was in continuous use from 1909 to 1972. The cruciform-shaped building has a Colonial Revival-influenced design with pedimented and pilastered doorframe, oversize cornice returns, and gable overhang. Near the school are the sites of the earlier Clarksburg Academy (1833) and a one-room school.

Growth in Clarksburg declined in the late 19th century, when the B & O Railroad bypassed the town for nearby Boyds. The advent of the automobile and improved roads brought something of an economic revival beginning in the 1920s. New boarding houses opened in town to accommodate the new auto tourism.

### **BACKGROUND:**

The applicants previously appeared before the Commission at the February 12, 2020 HPC meeting for a preliminary consultation.<sup>1</sup>

The applicants subsequently appeared before the Commission with a HAWP application at the October 28, 2020 HPC meeting.<sup>2</sup> During the October 28 hearing, it was determined that the application was incomplete, as some required plans and specifications were missing. The applicants have since submitted the missing information, and it is included on pages 111 - 232 at the end of this staff report. Staff notes that the missing information is as part of a separate MCDOT project (MD 355/Clarksburg Road Intersection Improvements). For clarity, the plans for that project have been included in their entirety; however, the sheets relevant to the proposed shared-use path can be located by referring to the second column on page 113 (Index of Sheets) of this staff report.

### **PROPOSAL:**

The applicants propose to construct an 8' wide shared-use path along the east side of MD 355 (Frederick Road) within the Clarksburg Historic District. The proposal also includes intersection improvements, tree removal/planting, and streetlamp installation.

### **APPLICABLE GUIDELINES:**

When reviewing alterations and new construction within the Clarksburg Historic District several documents are to be utilized as guidelines to assist the Commission in developing their decision. These documents include *Montgomery County Code Chapter 24A (Chapter 24A)*, the *Vision of Clarksburg: A Long-Range Preservation Plan (Vision)*, and the *Secretary of the Interior's Standards for Rehabilitation (Standards)*. The pertinent information in these documents is outlined below.

### ***Montgomery County Code; Chapter 24A-8***

<sup>1</sup> Link to February 12, 2020 HPC meeting audio/video transcript:

[http://mncppc.granicus.com/MediaPlayer.php?publish\\_id=cf45bbd0-4e99-11ea-9ca4-0050569183fa](http://mncppc.granicus.com/MediaPlayer.php?publish_id=cf45bbd0-4e99-11ea-9ca4-0050569183fa)

Link to February 12, 2020 preliminary consultation staff report: <https://montgomeryplanning.org/wp-content/uploads/2020/02/II.A-Multiple-Addresses-Clarksburg.pdf>

<sup>2</sup> Link to October 28, 2020 HPC meeting audio/video transcript:

[http://mncppc.granicus.com/MediaPlayer.php?publish\\_id=ba4854d9-1a21-11eb-a4b6-0050569183fa](http://mncppc.granicus.com/MediaPlayer.php?publish_id=ba4854d9-1a21-11eb-a4b6-0050569183fa)

Link to October 28, 2020 HAWP application staff report: <https://montgomeryplanning.org/wp-content/uploads/2020/10/I.K-23515-Frederick-Road-to-23200-Stringtown-Road-Clarksburg.pdf>

- (b) The commission shall instruct the director to issue a permit, or issue a permit subject to such conditions as are found to be necessary to ensure conformity with the purposes and requirements of this chapter, if it finds that:
  - (1) The proposal will not substantially alter the exterior features of an historic site or historic resource within an historic district; or
  - (2) The proposal is compatible in character and nature with the historical, archeological, architectural or cultural features of the historic site or the historic district in which an historic resource is located and would not be detrimental thereto or to the achievement of the purposes of this chapter; or
  - (3) The proposal would enhance or aid in the protection, preservation and public or private utilization of the historic site or historic resource located within an historic district in a manner compatible with the historical, archeological, architectural or cultural value of the historic site or historic district in which an historic resource is located; or
  - (4) The proposal is necessary in order that unsafe conditions or health hazards be remedied; or
  - (5) The proposal is necessary in order that the owner of the subject property not be deprived of reasonable use of the property or suffer undue hardship; or
  - (6) In balancing the interests of the public in preserving the historic site or historic resource located within an historic district, with the interests of the public from the use and benefit of the alternative proposal, the general public welfare is better served by granting the permit.
- (c) It is not the intent of this chapter to limit new construction, alteration or repairs to any 1 period or architectural style.
- (d) In the case of an application for work on an historic resource located within an historic district, the commission shall be lenient in its judgment of plans for structures of little historical or design significance or for plans involving new construction, unless such plans would seriously impair the historic or architectural value of surrounding historic resources or would impair the character of the historic district. (Ord. No. 9-4, § 1; Ord. No. 11-59.)

### ***Secretary of Interior's Standards for Rehabilitation***

The Secretary of the Interior defines rehabilitation as “the act or process of making possible a compatible use for a property through repair, alterations, and additions while preserving those portions or features, which convey its historical, cultural, or architectural values.” The *Standards* are as follows:

- 2. The historic character of a property shall be retained and preserved. The removal of historic materials or alteration of features and spaces that characterize a property shall be avoided.
- 9. New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment.

### **STAFF DISCUSSION:**

The applicants contacted the Functional Planning and Policy (FPP) division in 2018 for a Mandatory

Referral. In consultation with historic preservation staff, the applicants were instructed to conduct further archaeological investigations, consider additional permeable paving, and to revise their drainage plan to avoid known African American archaeological sites. The applicants made the requested revisions and subsequently appeared before the Historic Preservation Commission (HPC) at the February 12, 2020 HPC meeting seeking guidance regarding the appropriateness of the proposed project.

At the February 12, 2020 HPC meeting, the Commission voiced support for the project but recommended the following:

- a. The proposed Colonial-style light fixtures will detract from the historic district, and alternatives should be explored.
- b. Explore reducing the height of the retaining wall at 23407 and 23415 Frederick Road (as depicted on Page 32 of the February 12, 2020 staff report).
- c. Concerns were expressed regarding altering the relationship of houses along Frederick Road to the street, due to the construction of retaining walls in front of the houses. The applicant should explore the introduction of stairs within the retaining walls to retain the relationship.
- d. Consider reduction of the paved area and driveway width at 23421 Frederick Road (as depicted on Page 34 of the February 12, 2020 staff report).
- e. Consider working with property owners to reduce the number of curb cuts and/or combine driveways.
- f. Explore minimizing the amount of pavement directly adjacent to the proposed shared-use path and/or in front of the houses.
- g. Concrete with exposed aggregate should be used in lieu of plain concrete.
- h. Explore differing border materials along the proposed shared-use path to achieve the required 8' minimum width.
- i. Consider preserving the existing concrete stair along Frederick Road (as depicted on Page 27 of the February 12, 2020 staff report).
- j. Reduce the height of all proposed retaining walls and soften the retaining walls' appearance, where possible.

The applicants have returned with following responses to the Commission's recommendations:

- a. Potomac Edison only offers two light fixture styles, Colonial- and Acorn-style. Members of the Clarksburg Historic District requested the Colonial-style light fixture; however, in order to match the light fixtures on adjacent Clarksburg Square Road, the applicants propose Acorn-style light fixtures. This is also generally consistent with the Commission's recommendations.
- b. The maximum height of the retaining wall is 6' above grade, and reducing the height requires moving the wall closer to the road. Due to buffer requirements and minimum path width requirements, the wall can only be moved 1' to 2', which would not perceptibly change the wall height, would conflict with proposed drainage, and possibly conflict with waterline relocation. Therefore, the applicants have not revised this aspect of their proposal.
- c. There are currently no pedestrian accommodations to the front of 23407 and 23415 Frederick Road, which are commercial properties. Pedestrian access is currently from the rear and side of both buildings. Therefore, the applicants have not revised this aspect of their proposal (see specific response below).
- d. The applicants have indicated that they will reduce the driveway width to the minimum width needed for commercial use of the driveway and for the type of vehicles requiring access, where possible (see specific response below).
- e. The applicants have indicated that they will reduce the width of the driveways [and/or combine driveways], where possible (see specific responses below).
- f. The applicants have indicated that they will reduce the amount of pavement adjacent to the proposed shared-use path, where possible (see specific responses below).

- g. Exposed aggregate concrete is not a standard material for sidewalks and is not allowed by SHA. Tinted or stained concrete could be used as an aesthetic alternative, at the HPC's direction.
- h. Separate materials will cause differential settlement along the edge of the path and will create uneven pavement, which will create ADA compatibility issues. Because of this, this treatment is not recommended and was not pursued by the applicants.
- i. The applicants agree with the Commission's recommendation regarding the preservation of the existing concrete stair along Frederick Road. Accordingly, the applicants will amend their plans to direct the contractor to remove and salvage the existing stairs, and the contractor will coordinate with M-NCPPC to have the stairs taken to a preferred location. ***(Staff notes that the Commission's recommendation was to consider leaving the stair in place, not to remove it and preserve it off-site.)***
- j. The applicants have stated that response "b" regarding retaining wall height applies here as well. The finish of the proposed retaining walls has been revised to plain concrete, as recommended.

Specific responses to the Commission's recommendations regarding driveway width, retaining wall revisions, and reduction in paving:

The application states that the applicants' Office of Property Acquisition contacted several property owners and/or their representatives regarding the proposed right-of-way and modification to some of the driveways, due to the proposed construction of the shared-use path.

The following are details of those discussions and the proposed modifications [*with addresses changed by staff for clarification, where appropriate*]:

- 23401 Frederick Road (dentist's office) (*see the Commission's recommendation and the applicants' response labeled "f" above*)
  - The grading is proposed to be altered to meet the existing front deck height from the proposed shared-use path.
  - The driveway apron is proposed to be shortened.
  - The existing parking spaces in front of the building are proposed to be removed, accommodating the construction of the proposed shared-use path, and new parking spaces are proposed at the side of the building. This will reduce the amount of pavement adjacent to the proposed shared-use path in front of the building.
  - The applicants' Property Acquisition Specialist contacted the property owners on June 1, 2020, September 18, 2020, and September 24, 2020. The property owners have now hired a lawyer to represent them.
- 23407 & 23415 Fredrick Road (plumbing business) - Retaining wall in front of the buildings (*see the Commission's recommendation and the applicants' response labeled "c" above*)
  - Pedestrian access to these properties is currently at the sides.
  - The applicants' Property Acquisition Specialist contacted the property owner's representative [same owner for both properties] on October 9, 2020 and October 12, 2020 to discuss the proposed right-of-way and whether the owner would prefer pedestrian access from the proposed shared-use path at the front of the building. The property owner's representative indicated that they have hired a real estate firm to redevelop their property, and they will not come to any agreements until their site plan is approved.
- 23421 Fredrick Road & adjacent access to 23425 & 23505 Frederick Road to the rear (plumbing business) [same owner for all as 23407 & 23415 Frederick Road] (*see the*



*Commission's recommendations and the applicants' responses labeled "d" and "e" above)*

- As proposed, the width of the driveway entrances will be reduced from 30' to 20'.
- As proposed, the two existing driveway entrances at 23421 Frederick Road will be combined into one driveway entrance, removing one curb cut.

Staff remains supportive of the applicant's proposal and finds that the applicants have generally responded to the Commission's recommendations at the February 12, 2020 preliminary consultation. The applicants have also responded to staff's previous concerns regarding the compatibility of the proposed retaining walls (specifically, concerns that cultured stone veneers and/or stamped concrete would be an inappropriate finish, and that plain concrete would be an appropriate option), as well as questions about the proposed new streetlamps.

As staff noted in the February 12, 2020 preliminary consultation staff report:

*The Clarksburg Master Plan and Hyattstown Special Study Area (1994), which amended the Clarksburg and Vicinity Master Plan (1968), called for an off-street bike path along the existing road with vegetation against the edges in this location. In addition, the 10 Mile Creek Area Limited Amendment (2014), which amended the Clarksburg Master Plan and Hyattstown Special Study Area (1994) for the Ten Mile Creek Watershed, recommended a shared-use path in this location.*

Most of the proposed work will occur within the public right-of-way, where previous alterations (i.e., road and sidewalk construction, road widening, regrading, landscaping) have occurred. In accordance with *Standards #2 and #9*, the addition of a shared-use path will not remove or alter character-defining features of the historic district. The introduction and/or replacement of modern transportation features and appurtenances within the public right-of-way will not detract from the district's ability to convey its historical significance. Staff finds that increasing the connectedness of the historic district via a shared-use path will create a more cohesive streetscape, with buildings that clearly relate and interact with one another.

After full and fair consideration of the applicant's submission staff finds the proposal as being consistent with the Criteria for Issuance in Chapter 24A-(b) 1 and 2, having found the proposal is consistent with the *Secretary of the Interior's Standards for Rehabilitation #2 and #9* outlined above.

### **STAFF RECOMMENDATION:**

Staff recommends that the Commission **approve** the HAWP application under the Criteria for Issuance in Chapter 24A-8(b), (1), (2) & (d) having found that the proposal will not substantially alter the exterior features of the historic resource and is compatible in character with the district and the purposes of Chapter 24A;

and with the *Secretary of the Interior's Standards for Rehabilitation #2 and #9*;

and with the general condition that the applicant shall present the **3 permit sets of drawings, if applicable to Historic Preservation Commission (HPC) staff for review and stamping** prior to submission for the Montgomery County Department of Permitting Services (DPS) building permits;

and with the general condition that final project design details, not specifically delineated by the Commission, shall be approved by HPC staff or brought back to the Commission as a revised HAWP application at staff's discretion;

and with the general condition that the applicant shall notify the Historic Preservation Staff if they propose to make **any alterations** to the approved plans.

Once the work is completed the applicant will contact the staff person assigned to this application at 301-563-3400 or [michael.kyne@montgomeryplanning.org](mailto:michael.kyne@montgomeryplanning.org) to schedule a follow-up site visit.



FOR STAFF ONLY:  
HAWP# \_\_\_\_\_  
DATE ASSIGNED \_\_\_\_\_

**APPLICATION FOR  
HISTORIC AREA WORK PERMIT**  
HISTORIC PRESERVATION COMMISSION  
301.563.3400

**APPLICANT:**

Name: Ms. Yasamin Esmaili  
Address: 100 Edison Park Drive, 4th Floor  
Daytime Phone: 240-777-7226

E-mail: Yasamin.Esmaili@montgomerycountymd.gov  
City: Gaithersburg Zip: 20878  
Tax Account No.: \_\_\_\_\_

**AGENT/CONTACT (if applicable):**

Name: \_\_\_\_\_ E-mail: \_\_\_\_\_  
Address: \_\_\_\_\_ City: \_\_\_\_\_ Zip: \_\_\_\_\_  
Daytime Phone: \_\_\_\_\_ Contractor Registration No.: \_\_\_\_\_

**LOCATION OF BUILDING/PREMISE:** MIHP # of Historic Property \_\_\_\_\_

Is the Property Located within an Historic District? ☒ Yes/District Name Clarksburg Historic District  
\_\_\_\_\_ No/Individual Site Name \_\_\_\_\_

Is there an Historic Preservation/Land Trust/Environmental Easement on the Property? If YES, include a map of the easement, and documentation from the Easement Holder supporting this application.

Are other Planning and/or Hearing Examiner Approvals /Reviews Required as part of this Application? (Conditional Use, Variance, Record Plat, etc.?) If YES, include information on these reviews as supplemental information.

Building Number: \_\_\_\_\_ Street: \_\_\_\_\_

Town/City: \_\_\_\_\_ Nearest Cross Street: \_\_\_\_\_

Lot: \_\_\_\_\_ Block: \_\_\_\_\_ Subdivision: \_\_\_\_\_ Parcel: \_\_\_\_\_

**TYPE OF WORK PROPOSED: See the checklist on Page 4 to verify that all supporting items for proposed work are submitted with this application. Incomplete Applications will not be accepted for review. Check all that apply:**

- |  |   |   |
|--|---|---|
| <input checked="" type="checkbox"/> New Construction   | <input type="checkbox"/> Deck/Porch                     | <input type="checkbox"/> Shed/Garage/Accessory Structure  |
| <input type="checkbox"/> Addition                      | <input checked="" type="checkbox"/> Fence               | <input type="checkbox"/> Solar  |
| <input checked="" type="checkbox"/> Demolition         | <input checked="" type="checkbox"/> Hardscape/Landscape | <input checked="" type="checkbox"/> Tree removal/planting                                       |
| <input checked="" type="checkbox"/> Grading/Excavation | <input type="checkbox"/> Roof                           | <input type="checkbox"/> Window/Door  |
|  |   | <input checked="" type="checkbox"/> Other: <u>Sidewalk, Shared Use Path, Stream Restoration</u> |

I hereby certify that I have the authority to make the foregoing application, that the application is correct and accurate and that the construction will comply with plans reviewed and approved by all necessary agencies and hereby acknowledge and accept this to be a condition for the issuance of this permit.

Yasamin Esmaili

10/6/2019

Signature of owner or authorized agent

Date

Description of Property: Please describe the building and surrounding environment. Include information on significant structures, landscape features, or other significant features of the property:

There are 24 properties listed on the MD Inventory of Historic Properties within a one-mile radius of the Study Area, which includes the Clarksburg Historic District (MO:13-10). The historic district primarily contains a mix of late 18th through 20th century residential and commercial structures, but the majority of historic structures date back to the 19th century of this transportation and trade center. A Historic Built Environment Investigation was conducted and zero properties listed on the MD Inventory of Historic Properties within the proposed project study area would be affected.

Description of Work Proposed: Please give an overview of the work to be undertaken:

The proposed improvements include an 8 ft wide shared-use path along the east side of MD 355 from Stringtown Road to Snowden Farm Parkway in Clarksburg, MD. Intersection improvements at Frederick Rd and Clarksburg Rd include new turn lanes, bike lanes, shoulder widening, sidewalk connections and a side path along Frederick Rd. There will be 350 ft of stream restoration along Clarksburg Road. This project is partially in the Clarksburg Historic District. The work is proposed within state and county right-of-way, but may require two small acquisitions of undeveloped land. Most of the area is heavily disturbed due to previous road and intersection construction, widening, grading and landscaping. It is anticipated to remove 61 trees and replace 110 trees, as shown on the attached Tree Survey Plans. A Historic Built Environment Investigation was conducted and zero properties listed on the MD Inventory of Historic Properties within the proposed project study area would be affected.



Work Item 1: <u>Shared Use Path and associated improvements</u>	
Description of Current Condition:  Refer to attached plans.	Proposed Work: Refer to attached plans.

Work Item 2: _____	
Description of Current Condition:	Proposed Work:

Work Item 3: _____	
Description of Current Condition:	Proposed Work:

# HISTORIC AREA WORK PERMIT CHECKLIST OF APPLICATION REQUIREMENTS

	Required Attachments						
Proposed Work	I. Written Description	2. Site Plan	3. Plans/ Elevations	4. Material Specifications	5. Photographs	6. Tree Survey	7. Property Owner Addresses
New Construction	*	*	*	*	*	*	*
Additions/ Alterations	*	*	*	*	*	*	*
Demolition	*	*	*		*		*
Deck/Porch	*	*	*	*	*	*	*
Fence/Wall	*	*	*	*	*	*	*
Driveway/ Parking Area	*	*		*	*	*	*
Grading/Excavation/ Landscaping	*	*		*	*	*	*
Tree Removal	*	*		*	*	*	*
Siding/ Roof Changes	*	*	*	*	*		*
Window/ Door Changes	*	*	*	*	*		*
Masonry Repair/ Repoint	*	*	*	*	*		*
Signs	*	*	*	*	*		*

**TRANSMITTAL LETTER**

TO :  
Maryland National Capitol Parks and  
Planning Commission  
8787 Georgia Avenue  
Silver Spring MD 20910  
United States  
ATTENTION: Rebecca Ballo

DATE: 10/6/2020

PROJ NO: 214013.0010

RE: MD 355 Clarksburg Shared  
Use Path

QTY	DATED	DESCRIPTION
1	10/6/2020	Permit Application
1	10/6/2020	Photographs
1	10/6/2020	PropOwnerList
1	10/6/2020	SitePlans
1	10/6/2020	TreeSurvey
1	10/6/2020	AcornLight-DetailsClarksburgSquare.pdf
1	10/6/2020	AcornLight-PhotoClarksburgSquare.pdf
1	10/6/2020	RevisedResponses.docx

REMARKS: Rebecca,

This HAWP application is for the MD 355 - Clarksburg Shared Use Path project and MD 355/Clarksburg Road Intersection Improvements project.

Please click on the links to download the application and related documents.

Please let me know if you have any questions.

Thanks.

Scott

Yasamin Esmaili  
Mark Bodmann  
Daniel Sheridan

(Montgomery County Government)  
(WM&A)  
(Montgomery County Government)

---

Electronic Data Disclaimer

If applicable, the enclosed electronic data has been issued for informational and reference purposes only, and is solely intended for the referenced project. The enclosed electronic data is not intended or authorized for use on any other project, and WM makes no representation as to their suitability for any other use. Any use or re-use of the digital data files provided herein other than intended will be at the user's own risk and full legal responsibility.

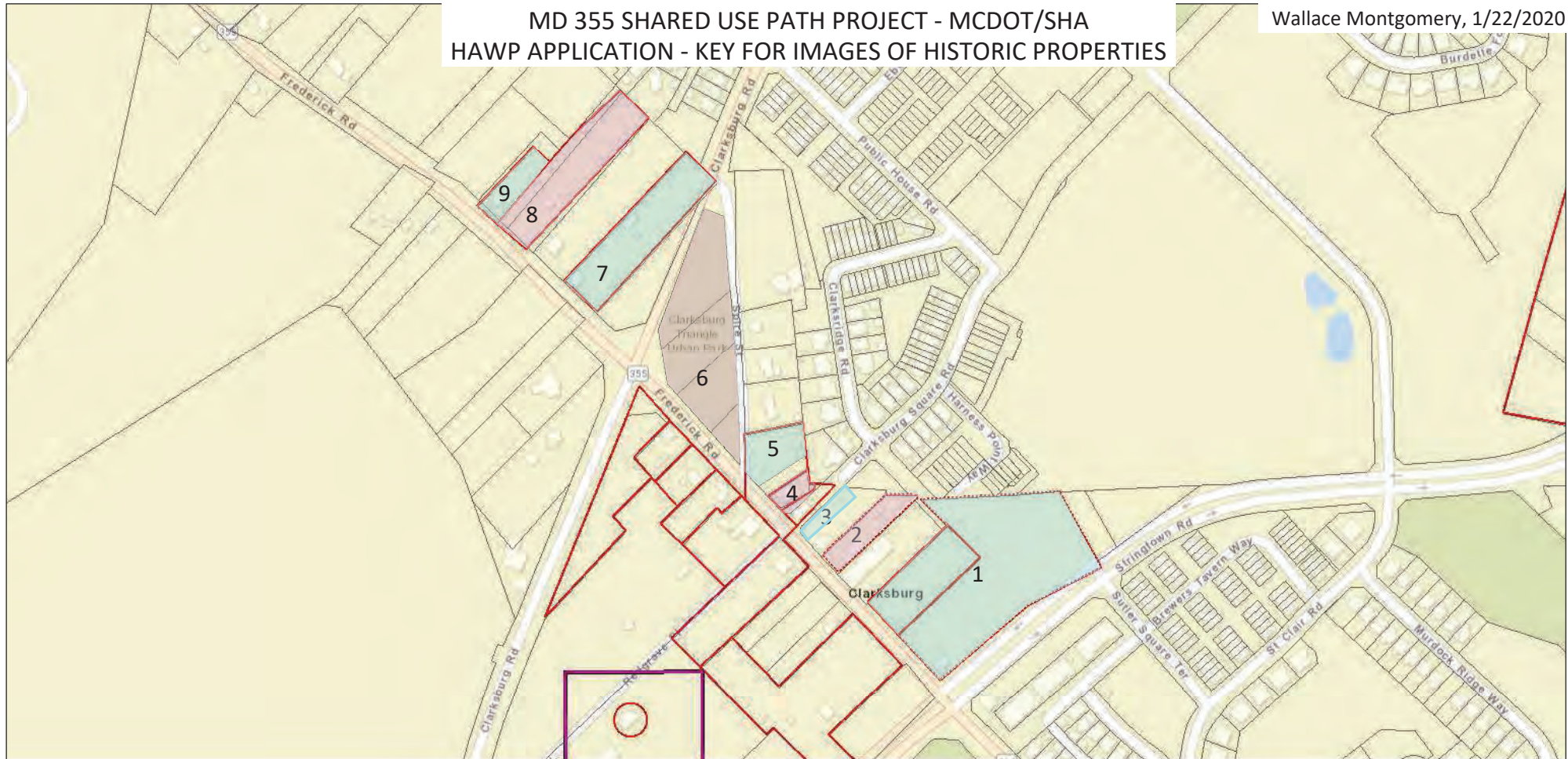
Users of this digital information must check and verify compliance with the sealed original plans, as variances may result due to the use of different software, hardware, or output devices. WM assumes no liability and is held harmless for inconsistencies and or changes by others between the electronic data and original plan sheets.

The user of this data shall, to the fullest extent permitted by law, indemnify and hold WM harmless from the use of these data files for other than the intended project, any and all claims arising out of or resulting there from. Use of this electronic data constitutes acceptance of these conditions.



# MD 355 SHARED USE PATH PROJECT - MCDOT/SHA HAWP APPLICATION - KEY FOR IMAGES OF HISTORIC PROPERTIES

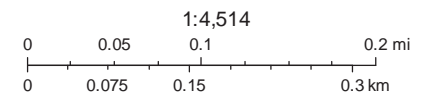
Wallace Montgomery, 1/22/2020



January 2, 2020

1. 23200 Stringtown Road - Day House - MIHP No. M: 13-10-14  
23311 Frederick Road - Columbus Woodward House/John Henry Wims House - MIHP No. M: 13-10-9
2. 23321 Frederick Road - Clarksburg Post Office - MIHP No. M: 13-10-13
3. 23339 Frederick Road - Horace Wilson House - MIHP No. M: 13-10-3 (relocated)
4. 23341 Frederick Road - Wilson Store - MIHP No. M: 13-10-4
5. 23345 Frederick Road
6. Triangle Park

7. 23401 Frederick Road - W.J. Dronenburg House - MIHP No. M: 13-10-12
8. 23415 Frederick Road - John Leaman House - MIHP No. M: 13-10-10
9. 23421 Frederick Road - William Hurley House & Shoe Shop - MIHP No. M: 13-10-8



MD IMAP, MDP, SDAT  
Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

Made by: Maryland Historical Trust  
MDP





① Existing

**Station 495+00 to 498+00 - 23200 Stringtown Road - Day House - MIHP No. M: 13-10-14**  
**23311 Frederick Road - Columbus Woodward House/John Henry Wims House - MIHP No. M: 13-10-9**





① *Proposed*

**Station 495+00 to 498+00 - 23200 Stringtown Road - Day House - MIHP No. M: 13-10-14**  
**23311 Frederick Road - Columbus Woodward House/John Henry Wims House - MIHP No. M: 13-10-9**

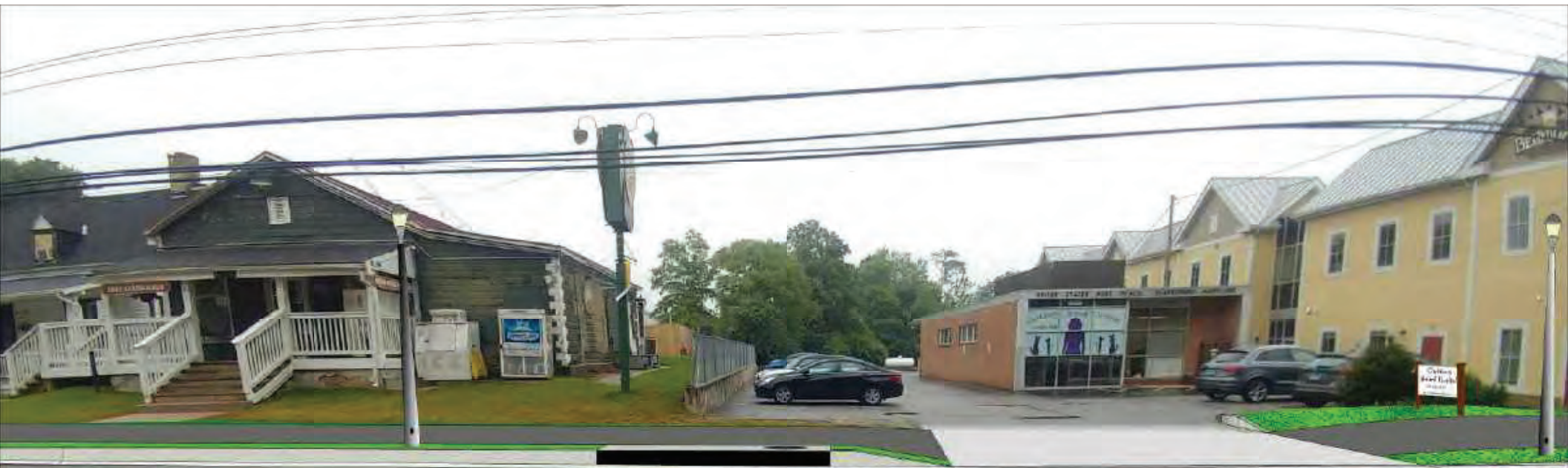




② Existing

**Station 500+00 - 23321 Frederick Road - Clarksburg Post Office - MIHP No. M: 13-10-13**





② *Proposed*

**Station 500+00 - 23321 Frederick Road - Clarksburg Post Office - MIHP No. M: 13-10-13**





**Station 501+00 - 23335 Frederick Road  
Horace Wilson House (Relocated) - MIHP No. M: 13-10-3**





**Station 501+00 - 23335 Frederick Road  
Horace Wilson House (Relocated) - MIHP No. M: 13-10-3**





**Station 502+50 - 23341 Frederick Road - Wilson Store - MIHP No. M: 13-10-4**





**Station 502+50 - 23341 Frederick Road - Wilson Store - MIHP No. M: 13-10-4**

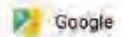


Google Maps 23345 Frederick Rd



Image capture: Dec 2016 © 2019 Google

Clarksburg, Maryland



Street View - Dec 2016

**5 Existing**

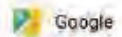
**Station 503+50 - 23345 Frederick Road**

Google Maps 23345 Frederick Rd



Image capture: Dec 2016 © 2019 Google

Clarksburg, Maryland



Street View - Dec 2016

**5 Proposed**

**Station 503+50 - 23345 Frederick Road**





6 Existing

**Station 504+50 to 506+00 - Triangle Park**





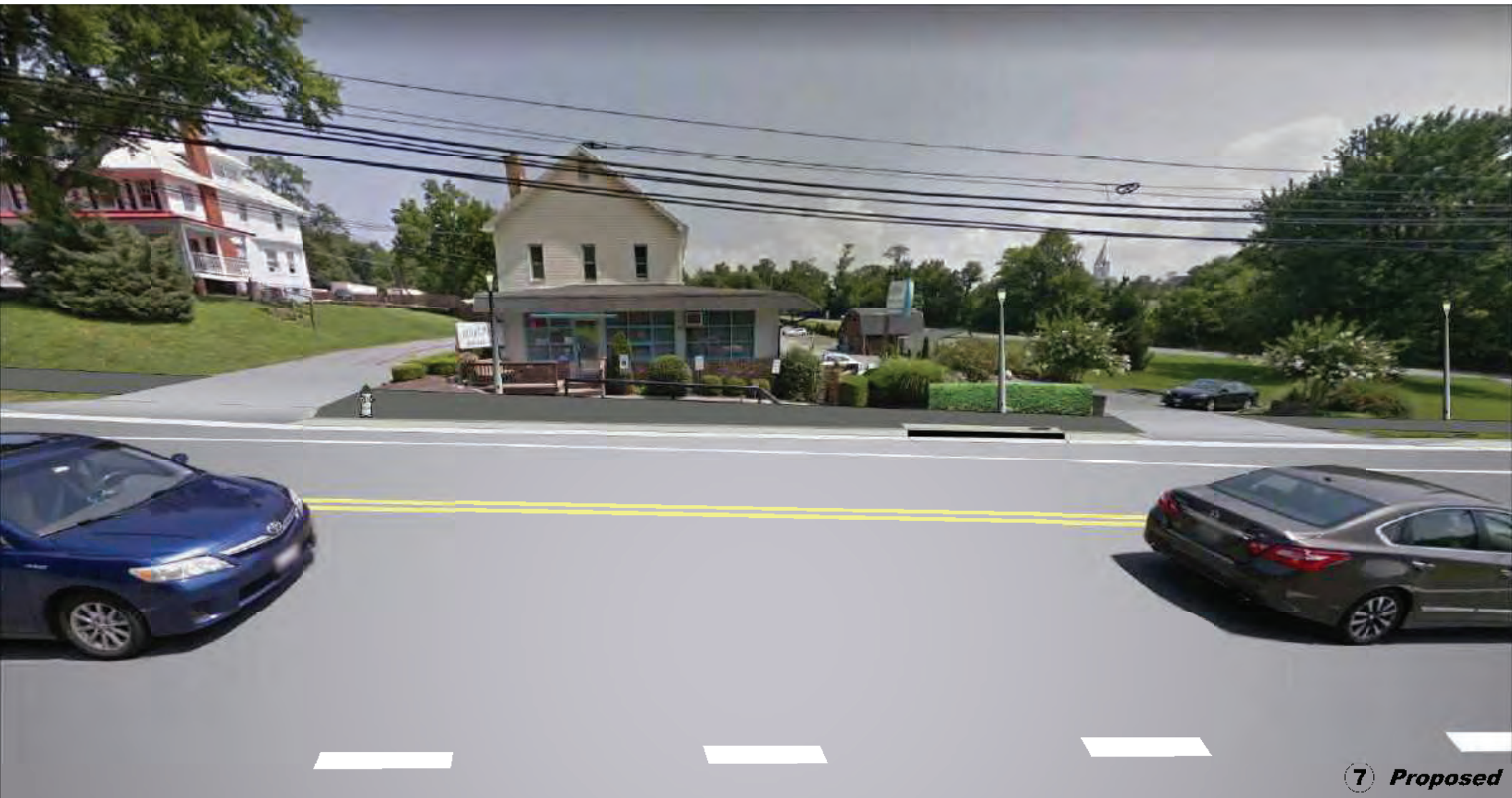
**Station 504+50 to 506+00 - Triangle Park**





7 Existing

Station 511+00 - 23401 Frederick Road - W.J. Dronenburg House - MIHP No. M: 13-10-12



⑦ *Proposed*

**Station 511+00 - 23401 Frederick Road - W.J. Dronenburg House - MIHP No. M: 13-10-12**





**Station 513+00 - 23415 Frederick Road - John Leaman House - MIHP No. M: 13-10-10**





⑧ *Proposed*

**Station 513+00 - 23415 Frederick Road - John Leaman House - MIHP No. M: 13-10-10**





**Station 514+50 - 23421 Frederick Road  
William Hurley House & Shoe Shop - MIHP No. M: 13-10-8**





**Station 514+50 - 23421 Frederick Road  
William Hurley House & Shoe Shop - MIHP No. M: 13-10-8**

PROJECT: MD 355 FREDERICK  
ROAD

PROJECT No.: 214013.0010  
COUNTY:

501744  
MONTGOMERY

No. of Owners	PAR. No.	TAX MAP	OWNER NAME	DEED LIBER	MAILING ADDRESS	PREMISIS ADDRESS	Comments
	P983	EW32	Montgomery County, MD	L. 38068 F. 281	101 Monroe St., Rockville, MD. 20850	21411 Spire Rd., Clarksburg, MD. 20871	
	P233	EW31	Montgomery County, MD	L. 33114 F. 763	101 Monroe St., Rockville, MD. 20850	23311 Frederick Rd., Clarksburg, MD. 20871	
	P044	EW31	Montgomery County, MD	L. 35097 F. 511	101 Monroe St., Rockville, MD. 20850	23365 Frederick Rd., Clarksburg, MD. 20871	
1	P340	EW31	Montgomery County, MD	No Deed Ref	101 Monroe St., Rockville, MD. 20850	Frederick Rd., Clarksburg, MD. 20871	No Address
	P050	EW31	Montgomery County, MD	L. 39699 F. 391	101 Monroe St., Rockville, MD. 20850	Frederick Rd., Clarksburg, MD. 20871	No Address
	P004	EW31	Montgomery County, MD	L. 39699 F. 414	101 Monroe St., Rockville, MD. 20850	Frederick Rd., Clarksburg, MD. 20871	No Address
	P888	EW22	Montgomery County, MD	L. 52970 F. 444	101 Monroe St., Rockville, MD. 20850	Frederick Rd., Clarksburg, MD. 20871	No Address
	P098	EW31	Montgomery County, MD	L. 34912 F. 616	101 Monroe St., Rockville, MD. 20850	Frederick Rd., Clarksburg, MD. 20871	No Address
	P065	EW31	Montgomery County, MD	L. 34912 F. 616	101 Monroe St., Rockville, MD. 20850	Frederick Rd., Clarksburg, MD. 20871	No Address
3	P257	EW31	Watkins, William K. & B. L.	L. 3919 F. 862	11610 Piedmont Rd., Clarksburg, MD. 20871	23314 Frederick Rd., Clarksburg, MD. 20871	
33	P757	EW32	Vu, Chung D. & Q. T.	L. 10438 F. 755	11700 Weller Hill Rd., Monrovia, MD. 21770	23529 Frederick Rd., Clarksburg, MD. 20871	
35	P730	EW22	Baron Investment Services, LLC	L. 49239 F. 422	12827 Gorman Circle, Boyds, MD. 20841	23543 Frederick Rd., Clarksburg, MD. 20871	
10	P155	EW31	Mullen, Laura L., Etal.	L. 27578 F. 715	1300 Coral Sea Dr., Rockville, MD. 20851	Frederick Rd., Clarksburg, MD. 20871	No Address
5	P228	EW31	Gardner House, LLC	L. 45846 F. 425	1402 Meadowsweet Dr., Sandy Spring, MD. 20860	23330 Frederick Rd., Clarksburg, MD. 20871	
14	P921	EW32	Musser, Lawrence H., Jr., Etal.	L. 15634 F. 644	17120 Longdraft Rd., Gaithersburg, MD. 20878	23506 Frederick Rd., Clarksburg, MD. 20871	
26	P009	EW31	Woojung, Inc	L. 33170 F. 277	18020 Coachmans Rd., Germantown, MD. 20874	Frederick Rd., Clarksburg, MD. 20871	No Address
	0000	EW22	Woodcrest at Little Bennett HOA, Inc	L. 34791 F. 167	18401 Woodfield Rd., Suite H, Gaithersburg, MD. 20879	Bennett Chase Dr., Gaithersburg, MD. 20879	No Address
36	0000	EW22	Woodcrest at Little Bennett HOA, Inc	L. 34791 F. 167	18401 Woodfield Rd., Suite H, Gaithersburg, MD. 20879	Frederick Rd., Clarksburg, MD. 20879	No Address
	0000	EW22	Woodcrest at Little Bennett HOA, Inc	L. 34791 F. 167	18401 Woodfield Rd., Suite H, Gaithersburg, MD. 20879	Snowden Farm Pkwy., Clarksburg, MD. 20879	No Address
20	N200	EW31	Buffington Enterprises II, LLC	No Deed Ref	21020 Layton Ridge Rd., Laytonsville, MD. 20882	23315 Frederick Rd., Clarksburg, MD. 20871	
21	P177	EW31	Modjarrad, Amir H., Etal.	L. 24057 F. 61	22222 Creekview Dr., Gaithersburg, MD. 20882	23321 Frederick Rd., Clarksburg, MD. 20871	
7	P153	EW31	Deren, LLC	L. 53331 F. 162	22505 Gateway Center Dr., Clarksburg, MD. 20871	23346 Frederick Rd., Clarksburg, MD. 20871	
25	P120	EW31	Espinoza, Albert M. & Dawn M.	L. 19746 F. 291	22800 W Harris Rd., Dickerson, MD. 20842	23345 Frederick Rd., Clarksburg, MD. 20871	
11	P115	EW31	Cooley, Bonnie W. & J. F.	L. 13354 F. 247	23320 Clarksburg Rd., Clarksburg, MD. 20871	23320 Clarksburg Rd., Clarksburg, MD. 20871	
6	P206	EW31	Randall, Albert B. & L. M.	L. 7817 F. 230	23340 Frederick Rd., Clarksburg, MD. 20871	23340 Frederick Rd., Clarksburg, MD. 20871	
24	P121	EW31	Espinoza, Al	L. 51974 F. 29	23343 Frederick Rd., Clarksburg, MD. 20871	Frederick Rd., Clarksburg, MD. 20871	No Address
8	P152	EW31	Zepeda-Barrera, Clarissa & Amadeo Zepeda	L. 48842 F. 190	23356 Frederick Rd., Clarksburg, MD. 20871	23356 Frederick Rd., Clarksburg, MD. 20871	
9	P117	EW31	Amaya, Julio C. & R. L.	L. 16278 F. 8	23360 Frederick Rd., Clarksburg, MD. 20871	23360 Frederick Rd., Clarksburg, MD. 20871	
23	P150	EW31	Nijaju, Joseph	L. 46628 F. 392	23450 Tailor Shop Pl., Clarksburg, MD. 20871	23341 Frederick Rd., Clarksburg, MD. 20871	
13	P975	EW32	L H Musser & Sons, Inc.	L. 21016 F. 666	23506 Frederick Rd., Clarksburg, MD. 20871	23500 Frederick Rd., Clarksburg, MD. 20871	
32	P811	EW32	Le, Duy Cong	L. 35777 F. 102	23521 Frederick Rd., Clarksburg, MD. 20871	23521 Frederick Rd., Clarksburg, MD. 20871	
	P759	EW32	Le, Duy Cong	No Deed Ref	23521 Frederick Rd., Clarksburg, MD. 20871	Frederick Rd., Clarksburg, MD. 20871	No Address
16	P840	EW22	Jackson, Troy & Debra	L. 51650 F. 147	23530 Frederick Rd., Clarksburg, MD. 20871	23530 Frederick Rd., Clarksburg, MD. 20871	
34	P785	EW22	Puckett, John C. & M. E.	L. 10958 F. 160	23535 Frederick Rd., Clarksburg, MD. 20871	23535 Frederick Rd., Clarksburg, MD. 20871	
17	P788	EW22	Culbertson, Colleen L.	L. 36261 F. 1	23540 Frederick Rd., Clarksburg, MD. 20871	23540 Frederick Rd., Clarksburg, MD. 20871	



No. of Owners	PAR. No.	TAX MAP	OWNER NAME	DEED LIBER	MAILING ADDRESS	PREMISIS ADDRESS	Comments
27	P980	EW32	Conley, Thomas W. & Sally A., Trustees	L. 52902 F. 350	23910 Clarksburg, Rd., #210, Clarksburg, MD. 20871	23407 Frederick Rd., Clarksburg, MD. 20871	
12	N061	EW31	Damascus Community Bank	L. 17110 F. 730	26500 Ridge Rd., Damascus, MD. 20872	23400 Frederick Rd., Clarksburg, MD. 20871	
	P060	EW31	Damascus Community Bank	L. 17110 F. 730	26500 Ridge Rd., Damascus, MD. 20872	Frederick Rd., Clarksburg, MD. 20871	No Address
	P176	EW31	Aries Investment Group, LLC	L. 29511 F. 579	267 Kentlands Blvd., #1024, Gaithersburg, MD. 20878	23329 Frederick Rd., Clarksburg, MD. 20871	
22	P203	EW31	Aries Investment Group, LLC	L. 29511 F. 579	267 Kentlands Blvd., #1024, Gaithersburg, MD. 20878	Frederick Rd., Clarksburg, MD. 20871	No Address
2	P311	EW31	Jaisai Properties, LLC	L. 49070 F. 436	4007 Broadstone, St., Frederick, MD. 21704	23310 Frederick Rd., Clarksburg, MD. 20871	
29	P912	EW32	Natelli Clarksburg, LLC	L. 21561 F. 443	506 Main St., FL 3, Gaithersburg, MD. 20878	Frederick Rd., Clarksburg, MD. 20871	No Address
	P860	EW32	Natelli Clarksburg, LLC	L. 21561 F. 443	506 Main St., FL 3, Gaithersburg, MD. 20878	Frederick Rd., Clarksburg, MD. 20871	No Address
15	P033	EW21	Barsanti, Ardwin H. Revocable Trust	L. 46867 F. 7	5113 Philip Rd., Annandale, VA. 22003	Frederick Rd., Clarksburg, MD. 20871	No Address
4	P258	EW31	Darby, Rodney H. & A. T.	L. 2553 F. 388	6125 Tuckerman La., Rockville, MD. 20852	Frederick Rd., Clarksburg, MD. 20871	No Address
	P259	EW31	Darby, Rodney H. & A. T.	No Deed Ref	6125 Tuckerman La., Rockville, MD. 20852	Frederick Rd., Clarksburg, MD. 20871	No Address
31	P814	EW32	Reliance Group, LLC	L. 52617 F. 218	7604 Brickyard Rd., Potomac, MD. 20854	23515 Frederick Rd., Clarksburg, MD. 20871	
19	P198	EW31	Potomac Holdings, LLC	No Deed Ref	7819 Norfolk Ave., Bethesda, MD. 20814	23200 Frederick Rd., Clarksburg, MD. 20871	
	P911	EW32	Ben Lewis Real Estate, LLC	L. 27512 F. 29	P.O. Box 1510, Clarksburg, MD. 20871	23415 Frederick Rd., Clarksburg, MD. 20871	
	P913	EW32	Ben Lewis Real Estate, LLC	L. 27512 F. 29	P.O. Box 1510, Clarksburg, MD. 20871	23421 Frederick Rd., Clarksburg, MD. 20871	
28	P926	EW32	Ben Lewis Real Estate, LLC	L. 27512 F. 29	P.O. Box 1510, Clarksburg, MD. 20871	23425 Frederick Rd., Clarksburg, MD. 20871	
18	N800	EW22	Mattlyn Enterprises, LLC	No Deed Ref	P.O. Box 178, Clarksburg, MD. 20871	23730 Frederick Rd., Clarksburg, MD. 20871	
30	P914	EW32	Ferguson/Anderson, LLC	L. 14707 F. 355	P.O. Box 42, Dickerson, MD. 20842	Frederick Rd., Clarksburg, MD. 20871	No Address

PROJECT: MD 355 FREDERICK  
ROAD

PROJECT No.: 214013.0010

501744

COUNTY:

MONTGOMERY

No. of Owners	PAR. No.	TAX MAP	OWNER NAME	DEED LIBER	MAILING ADDRESS	PREMISIS ADDRESS	Comments
	P983	EW32	Montgomery County, MD	L. 38068 F. 281	101 Monroe St., Rockville, MD. 20850	21411 Spire Rd., Clarksburg, MD. 20871	
	P233	EW31	Montgomery County, MD	L. 33114 F. 763	101 Monroe St., Rockville, MD. 20850	23311 Frederick Rd., Clarksburg, MD. 20871	
	P044	EW31	Montgomery County, MD	L. 35097 F. 511	101 Monroe St., Rockville, MD. 20850	23365 Frederick Rd., Clarksburg, MD. 20871	
1	P340	EW31	Montgomery County, MD	No Deed Ref	101 Monroe St., Rockville, MD. 20850	Frederick Rd., Clarksburg, MD. 20871	No Address
	P050	EW31	Montgomery County, MD	L. 39699 F. 391	101 Monroe St., Rockville, MD. 20850	Frederick Rd., Clarksburg, MD. 20871	No Address
	P004	EW31	Montgomery County, MD	L. 39699 F. 414	101 Monroe St., Rockville, MD. 20850	Frederick Rd., Clarksburg, MD. 20871	No Address
	P888	EW22	Montgomery County, MD	L. 52970 F. 444	101 Monroe St., Rockville, MD. 20850	Frederick Rd., Clarksburg, MD. 20871	No Address
	P098	EW31	Montgomery County, MD	L. 34912 F. 616	101 Monroe St., Rockville, MD. 20850	Frederick Rd., Clarksburg, MD. 20871	No Address
	P065	EW31	Montgomery County, MD	L. 34912 F. 616	101 Monroe St., Rockville, MD. 20850	Frederick Rd., Clarksburg, MD. 20871	No Address
3	P257	EW31	Watkins, William K. & B. L.	L. 3919 F. 862	11610 Piedmont Rd., Clarksburg, MD. 20871	23314 Frederick Rd., Clarksburg, MD. 20871	
33	P757	EW32	Vu, Chung D. & Q. T.	L. 10438 F. 755	11700 Weller Hill Rd., Monrovia, MD. 21770	23529 Frederick Rd., Clarksburg, MD. 20871	
35	P730	EW22	Baron Investment Services, LLC	L. 49239 F. 422	12827 Gorman Circle, Boyds, MD. 20841	23543 Frederick Rd., Clarksburg, MD. 20871	
10	P155	EW31	Mullen, Laura L., Etal.	L. 27578 F. 715	1300 Coral Sea Dr., Rockville, MD. 20851	Frederick Rd., Clarksburg, MD. 20871	No Address
5	P228	EW31	Gardner House, LLC	L. 45846 F. 425	1402 Meadowsweet Dr., Sandy Spring, MD. 20860	23330 Frederick Rd., Clarksburg, MD. 20871	
14	P921	EW32	Musser, Lawrence H., Jr., Etal.	L. 15634 F. 644	17120 Longdraft Rd., Gaithersburg, MD. 20878	23506 Frederick Rd., Clarksburg, MD. 20871	
26	P009	EW31	Woojung, Inc	L. 33170 F. 277	18020 Coachmans Rd., Germantown, MD. 20874	Frederick Rd., Clarksburg, MD. 20871	No Address
	0000	EW22	Woodcrest at Little Bennett HOA, Inc	L. 34791 F. 167	18401 Woodfield Rd., Suite H, Gaithersburg, MD. 20879	Bennett Chase Dr., Gaithersburg, MD. 20879	No Address
36	0000	EW22	Woodcrest at Little Bennett HOA, Inc	L. 34791 F. 167	18401 Woodfield Rd., Suite H, Gaithersburg, MD. 20879	Frederick Rd., Clarksburg, MD. 20879	No Address

No. of Owners	PAR. No.	TAX MAP	OWNER NAME	DEED LIBER	MAILING ADDRESS	PREMISIS ADDRESS	Comments
	0000	EW22	Woodcrest at Little Bennett HOA, Inc	L. 34791 F. 167	18401 Woodfield Rd., Suite H, Gaithersburg, MD. 20879	Snowden Farm Pkwy., Clarksburg, MD. 20879	No Address
20	N200	EW31	Buffington Enterprises II, LLC	No Deed Ref	21020 Layton Ridge Rd., Laytonsville, MD. 20882	23315 Frederick Rd., Clarksburg, MD. 20871	
21	P177	EW31	Modjarrad, Amir H., Etal.	L. 24057 F. 61	22222 Creekview Dr., Gaithersburg, MD. 20882	23321 Frederick Rd., Clarksburg, MD. 20871	
7	P153	EW31	Deren, LLC	L. 53331 F. 162	22505 Gateway Center Dr., Clarksburg, MD. 20871	23346 Frederick Rd., Clarksburg, MD. 20871	
25	P120	EW31	Espinoza, Albert M. & Dawn M.	L. 19746 F. 291	22800 W Harris Rd., Dickerson, MD. 20842	23345 Frederick Rd., Clarksburg, MD. 20871	
11	P115	EW31	Cooley, Bonnie W. & J. F.	L. 13354 F. 247	23320 Clarksburg Rd., Clarksburg, MD. 20871	23320 Clarksburg Rd., Clarksburg, MD. 20871	
6	P206	EW31	Randall, Albert B. & L. M.	L. 7817 F. 230	23340 Frederick Rd., Clarksburg, MD. 20871	23340 Frederick Rd., Clarksburg, MD. 20871	
24	P121	EW31	Espinoza, Al	L. 51974 F. 29	23343 Frederick Rd., Clarksburg, MD. 20871	Frederick Rd., Clarksburg, MD. 20871	No Address
8	P152	EW31	Zepeda-Barrera, Clarissa & Amadeo Zepeda	L. 48842 F. 190	23356 Frederick Rd., Clarksburg, MD. 20871	23356 Frederick Rd., Clarksburg, MD. 20871	
9	P117	EW31	Amaya, Julio C. & R. L.	L. 16278 F. 8	23360 Frederick Rd., Clarksburg, MD. 20871	23360 Frederick Rd., Clarksburg, MD. 20871	
23	P150	EW31	Njiaju, Joseph	L. 46628 F. 392	23450 Tailor Shop Pl., Clarksburg, MD. 20871	23341 Frederick Rd., Clarksburg, MD. 20871	
13	P975	EW32	L H Musser & Sons, Inc.	L. 21016 F. 666	23506 Frederick Rd., Clarksburg, MD. 20871	23500 Frederick Rd., Clarksburg, MD. 20871	
32	P811	EW32	Le, Duy Cong	L. 35777 F. 102	23521 Frederick Rd., Clarksburg, MD. 20871	23521 Frederick Rd., Clarksburg, MD. 20871	
	P759	EW32	Le, Duy Cong	No Deed Ref	23521 Frederick Rd., Clarksburg, MD. 20871	Frederick Rd., Clarksburg, MD. 20871	No Address
16	P840	EW22	Jackson, Troy & Debra	L. 51650 F. 147	23530 Frederick Rd., Clarksburg, MD. 20871	23530 Frederick Rd., Clarksburg, MD. 20871	
34	P785	EW22	Puckett, John C. & M. E.	L. 10958 F. 160	23535 Frederick Rd., Clarksburg, MD. 20871	23535 Frederick Rd., Clarksburg, MD. 20871	
17	P788	EW22	Culbertson, Colleen L.	L. 36261 F. 1	23540 Frederick Rd., Clarksburg, MD. 20871	23540 Frederick Rd., Clarksburg, MD. 20871	
27	P980	EW32	Conley, Thomas W. & Sally A., Trustees	L. 52902 F. 350	23910 Clarksburg, Rd., #210, Clarksburg, MD. 20871	23407 Frederick Rd., Clarksburg, MD. 20871	
12	N061	EW31	Damascus Community Bank	L. 17110 F. 730	26500 Ridge Rd., Damascus, MD. 20872	23400 Frederick Rd., Clarksburg, MD. 20871	
	P060	EW31	Damascus Community Bank	L. 17110 F. 730	26500 Ridge Rd., Damascus, MD. 20872	Frederick Rd., Clarksburg, MD. 20871	No Address

No. of Owners	PAR. No.	TAX MAP	OWNER NAME	DEED LIBER	MAILING ADDRESS	PREMISIS ADDRESS	Comments
	P176	EW31	Aries Investment Group, LLC	L. 29511 F. 579	267 Kentlands Blvd., #1024, Gaithersburg, MD. 20878	23329 Frederick Rd., Clarksburg, MD. 20871	
22	P203	EW31	Aries Investment Group, LLC	L. 29511 F. 579	267 Kentlands Blvd., #1024, Gaithersburg, MD. 20878	Frederick Rd., Clarksburg, MD. 20871	No Address
2	P311	EW31	Jaisai Properties, LLC	L. 49070 F. 436	4007 Broadstone, St., Frederick, MD. 21704	23310 Frederick Rd., Clarksburg, MD. 20871	
29	P912	EW32	Natelli Clarksburg, LLC	L. 21561 F. 443	506 Main St., FL 3, Gaithersburg, MD. 20878	Frederick Rd., Clarksburg, MD. 20871	No Address
	P860	EW32	Natelli Clarksburg, LLC	L. 21561 F. 443	506 Main St., FL 3, Gaithersburg, MD. 20878	Frederick Rd., Clarksburg, MD. 20871	No Address
15	P033	EW21	Barsanti, Ardwin H. Revocable Trust	L. 46867 F. 7	5113 Philip Rd., Annandale, VA. 22003	Frederick Rd., Clarksburg, MD. 20871	No Address
4	P258	EW31	Darby, Rodney H. & A. T.	L. 2553 F. 388	6125 Tuckerman La., Rockville, MD. 20852	Frederick Rd., Clarksburg, MD. 20871	No Address
	P259	EW31	Darby, Rodney H. & A. T.	No Deed Ref	6125 Tuckerman La., Rockville, MD. 20852	Frederick Rd., Clarksburg, MD. 20871	No Address
31	P814	EW32	Reliance Group, LLC	L. 52617 F. 218	7604 Brickyard Rd., Potomac, MD. 20854	23515 Frederick Rd., Clarksburg, MD. 20871	
19	P198	EW31	Potomac Holdings, LLC	No Deed Ref	7819 Norfolk Ave., Bethesda, MD. 20814	23200 Frederick Rd., Clarksburg, MD. 20871	
	P911	EW32	Ben Lewis Real Estate, LLC	L. 27512 F. 29	P.O. Box 1510, Clarksburg, MD. 20871	23415 Frederick Rd., Clarksburg, MD. 20871	
	P913	EW32	Ben Lewis Real Estate, LLC	L. 27512 F. 29	P.O. Box 1510, Clarksburg, MD. 20871	23421 Frederick Rd., Clarksburg, MD. 20871	
28	P926	EW32	Ben Lewis Real Estate, LLC	L. 27512 F. 29	P.O. Box 1510, Clarksburg, MD. 20871	23425 Frederick Rd., Clarksburg, MD. 20871	
18	N800	EW22	Mattlyn Enterprises, LLC	No Deed Ref	P.O. Box 178, Clarksburg, MD. 20871	23730 Frederick Rd., Clarksburg, MD. 20871	
30	P914	EW32	Ferguson/Anderson, LLC	L. 14707 F. 355	P.O. Box 42, Dickerson, MD. 20842	Frederick Rd., Clarksburg, MD. 20871	No Address

INDEX OF SHEETS  
SEE SHEET 2

GENERAL NOTES  
SEE SHEET 3

# MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING

## MD 355 - CLARKSBURG SHARED USE PATH

STA. 495+29 TO STA. 531+37

C. I. P. PROJECT NO. 501744

UPDATED 90% SUBMITTAL

**LIMIT OF WORK**  
C.I.P. PROJECT NO. 501744  
MD 355 (FREDERICK ROAD)  
STA. 531+37

**LIMIT OF WORK**  
C.I.P. PROJECT NO. 501744  
MD 355 (FREDERICK ROAD)  
STA. 515+21 ■  
C.I.P. PROJECT NO. 508000  
CLARKSBURG ROAD  
STA. 515+21

**LIMIT OF WORK**  
C.I.P. PROJECT NO. 501744  
MD 355 (FREDERICK ROAD)  
STA. 503+64 ■  
C.I.P. PROJECT NO. 508000  
CLARKSBURG ROAD  
STA. 503+64

**LIMIT OF WORK**  
C.I.P. PROJECT NO. 501744  
MD 355 (FREDERICK ROAD)  
SHARED USE PATH  
STA. 495+29



PLAN LOCATION OF SOIL BORING

SOIL BORING LOG SUMMARY SHEETS ARE INCLUDED IN THE INVITATION FOR BIDS BOOK.



I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.  
LICENSE NO. 31487, EXPIRATION DATE: 03/18/2021

MARK J. BODMANN, P.E. DATE

RELATED REQUIRED PERMITS				
IT IS THE RESPONSIBILITY OF PERMITTEE/OWNER OF THIS SITE TO OBTAIN ALL REQUIRED PERMITS PRIOR TO ISSUANCE OF THE APPROVED SEDIMENT CONTROL PERMIT				
TYPE OF PERMIT	REQ'D	REQ'D	PERMIT NO.	EXPIRATION DATE
MDOT (Roadway) Easement		X		
WATERWAYS/WETLANDS		X		
B. Construction	X			
C. MDE Water Quality Certification		X		
D. MDE Easement	X			
E. MDE Easement	X			
F. MDE Easement	X			
G. MDE Easement	X			
H. MDE Easement	X			
I. MDE Easement	X			
J. MDE Easement	X			
K. MDE Easement	X			
L. MDE Easement	X			
M. MDE Easement	X			
N. MDE Easement	X			
O. MDE Easement	X			
P. MDE Easement	X			
Q. MDE Easement	X			
R. MDE Easement	X			
S. MDE Easement	X			
T. MDE Easement	X			
U. MDE Easement	X			
V. MDE Easement	X			
W. MDE Easement	X			
X. MDE Easement	X			
Y. MDE Easement	X			
Z. MDE Easement	X			

### CERTIFICATION OF QUANTITIES

I HEREBY CERTIFY THAT THE ESTIMATED TOTAL AMOUNT OF EXCAVATION AND FILL AS SHOWN ON THESE PLANS HAS BEEN COMPUTED TO BE 7305 CUBIC YARDS OF EXCAVATION AND 400 CUBIC YARDS OF FILL AND THAT THE TOTAL AREA TO BE DISTURBED AS SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE XXXX SQUARE FEET.

**MONTGOMERY COUNTY DOT MAINTENANCE CERTIFICATION**  
I HEREBY CERTIFY THAT THE DEPARTMENT OF TRANSPORTATION WILL ASSUME MAINTENANCE RESPONSIBILITIES FOR ALL STORMWATER MANAGEMENT FACILITIES AS LISTED AND SHOWN, HEREON, IN ACCORDANCE WITH THE MEMORANDUM OF UNDERSTANDING BETWEEN THIS DEPARTMENT AND THE DEPARTMENT OF ENVIRONMENTAL PROTECTION DATED SEPTEMBER 1, 1986. IF, FOR ANY REASON, FUTURE IMPROVEMENTS TO THE ROADWAY ARE PLANNED THAT WOULD IMPACT ANY OF THE STORMWATER MANAGEMENT FACILITIES INCLUDED HEREIN, THIS DEPARTMENT WILL NOTIFY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION DURING THE PLANNING OR EARLY DESIGN STAGE OF SUCH IMPROVEMENTS.

TIMOTHY H. CUPPLES, P.E.  
CHIEF, DIVISION OF TRANSPORTATION ENGINEERING

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL:

Chief, Design Section

APPROVED

Chief, Division of Engineering Services

Designed by: J.D.W. Drawn by: J.D.W. Checked by: S.R.R.

**TITLE SHEET**

**MD 355 - CLARKSBURG  
SHARED USE PATH**

SCALE: NO SCALE

06/2020

Project No.: C.I.P. PR. # 501744 SHEET 01 of 88

**WALLACE MONTGOMERY**  
ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS  
10150 York Road, Suite 200  
Hunt Valley, Maryland 21030  
410.494.9093 Tel / 410.667.0925 Fax  
www.WallaceMontgomery.com

**MDOT**  
Maryland Department of Transportation  
100 EDISON PARK DR., 4TH FLOOR  
GAITHERSBURG, MD 20878  
240-777-7224

# INDEX OF SHEETS

SHEET NO.	SHEET DESIGNATION	DESCRIPTION
1	T1 01 OF 01	TITLE SHEET
2	INDX 01 OF 01	INDEX OF SHEETS
3	GN 01 OF 01	GENERAL NOTES AND DEFINITIONS
4	TS 01 OF 01	TYPICAL SECTIONS
5	DE 01 OF 01	PAVEMENT DETAILS
6	CR 01 OF 01	CURB ELEVATIONS AND OFFSETS
7	GS 01 OF 01	GEOMETRY LAYOUT
8	PS 01 OF 07	ROADWAY PLAN - STA. 495+29 TO STA. 498+00 (MD 355)
9	PS 02 OF 07	ROADWAY PLAN - STA. 498+00 TO STA. 501+50 (MD 355)
10	PS 03 OF 07	ROADWAY PLAN - STA. 501+50 TO STA. 505+00 (MD 355)
11	PS 04 OF 07	ROADWAY PLAN - STA. 514+50 TO STA. 519+00 (MD 355)
12	PS 05 OF 07	ROADWAY PLAN - STA. 519+00 TO STA. 523+50 (MD 355)
13	PS 06 OF 07	ROADWAY PLAN - STA. 523+50 TO STA. 528+00 (MD 355)
14	PS 07 OF 07	ROADWAY PLAN - STA. 528+00 TO STA. 531+37 (MD 355)
15	SR 01 OF 06	STREAM RESTORATION PLAN
16	SR 02 OF 06	STREAM RESTORATION PROFILE
17	SR 03 OF 06	STREAM RESTORATION TYPICAL SECTIONS
18	SR 04 OF 06	STREAM RESTORATION DETAILS
19	SR 05 OF 06	STREAM RESTORATION DETAILS
20	SR 06 OF 06	STREAM RESTORATION GEOMETRY LAYOUT
21	DA 01 OF 01	DRAINAGE AREA MAP
22	DD 01 OF 02	DRAINAGE SCHEDULE AND DETAILS
23	DD 02 OF 02	DRAINAGE DETAILS
24	DP 01 OF 03	DRAINAGE PROFILE
25	DP 02 OF 03	DRAINAGE PROFILE
26	DP 03 OF 03	DRAINAGE PROFILE
27	SC 01 OF 19	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS
28	SC 02 OF 19	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS
29	SC 03 OF 19	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS
30	SC 04 OF 19	INITIAL EROSION AND SEDIMENT CONTROL PLAN - STA. 495+29 TO STA. 498+00 (MD 355)
31	SC 05 OF 19	PHASE I EROSION AND SEDIMENT CONTROL PLAN - STA. 498+00 TO STA. 501+50 (MD 355)
32	SC 06 OF 19	PHASE I EROSION AND SEDIMENT CONTROL PLAN - STA. 501+50 TO STA. 505+00 (MD 355)
33	SC 07 OF 19	PHASE I EROSION AND SEDIMENT CONTROL PLAN - STA. 514+50 TO STA. 519+00 (MD 355)
34	SC 08 OF 19	PHASE I EROSION AND SEDIMENT CONTROL PLAN - STA. 519+00 TO STA. 523+50 (MD 355)
35	SC 09 OF 19	PHASE I EROSION AND SEDIMENT CONTROL PLAN - STA. 523+50 TO STA. 528+00 (MD 355)
36	SC 10 OF 19	PHASE I EROSION AND SEDIMENT CONTROL PLAN - STA. 528+00 TO STA. 531+37 (MD 355)
37	SC 11 OF 19	PHASE I EROSION AND SEDIMENT CONTROL PLAN - STA. 194+50 TO STA. 200+00 (MD 121)
38	SC 12 OF 19	PHASE II EROSION AND SEDIMENT CONTROL PLAN - STA. 495+29 TO STA. 498+00 (MD 355)
39	SC 13 OF 19	PHASE II EROSION AND SEDIMENT CONTROL PLAN - STA. 498+00 TO STA. 501+50 (MD 355)
40	SC 14 OF 19	PHASE II EROSION AND SEDIMENT CONTROL PLAN - STA. 501+50 TO STA. 505+00 (MD 355)
41	SC 15 OF 19	PHASE II EROSION AND SEDIMENT CONTROL PLAN - STA. 514+50 TO STA. 519+00 (MD 355)
42	SC 16 OF 19	PHASE II EROSION AND SEDIMENT CONTROL PLAN - STA. 519+00 TO STA. 523+50 (MD 355)
43	SC 17 OF 19	PHASE II EROSION AND SEDIMENT CONTROL PLAN - STA. 523+50 TO STA. 528+00 (MD 355)
44	SC 18 OF 19	PHASE II EROSION AND SEDIMENT CONTROL PLAN - STA. 528+00 TO STA. 531+37 (MD 355)
45	SC 19 OF 19	PHASE II EROSION AND SEDIMENT CONTROL PLAN - STA. 194+50 TO STA. 200+00 (MD 121)
46	MT 01 OF 02	MAINTENANCE OF TRAFFIC NOTES AND DETAILS
47	MT 02 OF 02	MAINTENANCE OF TRAFFIC TYPICAL PLAN
48	SN 01 OF 01	SIGNING AND PAVEMENT MARKING PLAN - GENERAL NOTES
49	SN 2-1 OF 2.4	SIGNING AND PAVEMENT MARKING PLAN - STA. 495+29 TO STA. 501+00 (MD 355)
50	SN 2-2 OF 2.4	SIGNING AND PAVEMENT MARKING PLAN - STA. 501+00 TO STA. 505+00 (MD 355)
51	SN 2-3 OF 2.4	SIGNING AND PAVEMENT MARKING PLAN - STA. 514+50 TO STA. 523+50 (MD 355)
52	SN 2-4 OF 2.4	SIGNING AND PAVEMENT MARKING PLAN - STA. 523+50 TO STA. 531+37 (MD 355)
53	SN 11.1 OF 11.1	SIGNING AND PAVEMENT MARKING PLANS - INDEX OF QUANTITIES

# INDEX OF SHEETS

SHEET NO.	SHEET DESIGNATION	DESCRIPTION
54	LT 01 OF 08	LIGHTING PLAN - NOTES AND SCHEDULES
55	LT 02 OF 08	LIGHTING PLAN - STA. 495+29 TO STA. 498+00 (MD 355)
56	LT 03 OF 08	LIGHTING PLAN - STA. 498+00 TO STA. 501+50 (MD 355)
57	LT 04 OF 08	LIGHTING PLAN - STA. 501+50 TO STA. 505+00 (MD 355)
58	LT 05 OF 08	LIGHTING PLAN - STA. 514+50 TO STA. 519+00 (MD 355)
59	LT 06 OF 08	LIGHTING PLAN - STA. 519+00 TO STA. 523+50 (MD 355)
60	LT 07 OF 08	LIGHTING PLAN - STA. 523+50 TO STA. 528+00 (MD 355)
61	LT 08 OF 08	LIGHTING PLAN - STA. 528+00 TO STA. 531+37 (MD 355)
62	L 1.1A OF 1.1A	FOREST CONSERVATION PLAN - OVERALL
63	L 1.1 OF 1.9	FOREST CONSERVATION PLAN - STA. 495+29 TO STA. 498+00 (MD 355)
64	L 1.2 OF 1.9	FOREST CONSERVATION PLAN - STA. 498+00 TO STA. 501+50 (MD 355)
65	L 1.3 OF 1.9	FOREST CONSERVATION PLAN - STA. 501+50 TO STA. 505+00 (MD 355)
66	L 1.4 OF 1.9	FOREST CONSERVATION PLAN - STA. 514+50 TO STA. 519+00 (MD 355)
67	L 1.5 OF 1.9	FOREST CONSERVATION PLAN - STA. 519+00 TO STA. 523+50 (MD 355)
68	L 1.6 OF 1.9	FOREST CONSERVATION PLAN - STA. 523+50 TO STA. 528+00 (MD 355)
69	L 1.7 OF 1.9	FOREST CONSERVATION PLAN - STA. 528+00 TO STA. 531+37 (MD 355)
70	L 1.8 OF 1.9	FOREST CONSERVATION PLAN - MD 121
71	L 1.9 OF 1.9	FOREST CONSERVATION PLAN - NOTES
72	L 2.1 OF 2.10	LANDSCAPE PLAN - STA. 495+29 TO STA. 498+00 (MD 355)
73	L 2.2 OF 2.10	LANDSCAPE PLAN - STA. 498+00 TO STA. 501+50 (MD 355)
74	L 2.3 OF 2.10	LANDSCAPE PLAN - STA. 501+50 TO STA. 505+00 (MD 355)
75	L 2.4 OF 2.10	LANDSCAPE PLAN - STA. 514+50 TO STA. 519+00 (MD 355)
76	L 2.5 OF 2.10	LANDSCAPE PLAN - STA. 519+00 TO STA. 523+50 (MD 355)
77	L 2.6 OF 2.10	LANDSCAPE PLAN - STA. 523+50 TO STA. 528+00 (MD 355)
78	L 2.7 OF 2.10	LANDSCAPE PLAN - STA. 528+00 TO STA. 531+37 (MD 355)
79	L 2.8 OF 2.10	LANDSCAPE PLAN - MD 121
80	L 2.9 OF 2.10	LANDSCAPE - NOTES & DETAILS
81	L 2.10 OF 2.10	LANDSCAPE - NOTES & DETAILS
82	GR 01 OF 01	EARTHWORK & GRADING SUMMARY SHEET
83	RW 1-1 OF RW 1-1	RETAINING WALL 1 GENERAL PLAN AND ELEVATION
84	RW 2-1 OF RW 2-5	RETAINING WALL 2 GENERAL PLAN AND ELEVATION
85	RW 2-2 OF RW 2-5	RETAINING WALL 2 GEOMETRIC AND FOOTING LAYOUT
86	RW 2-3 OF RW 2-5	RETAINING WALL 2 TYPICAL SECTION AND DETAILS
87	RW 2-4 OF RW 2-5	RETAINING WALL 2 PRECAST LAGGING DETAILS
88	RW 2-5 OF RW 2-5	BORING LOCATION PLAN


FOR ALL CONSTRUCTION WITHIN THE STATE OF MD RIGHT-OF-WAY THE CONTRACTOR SHALL REFER TO THE SHA BOOK OF STANDARDS WHICH CAN BE ACCESSED AT:  
[HTTP://APPS.ROADS.MARYLAND.GOV/BUSINESSWITHSHA/81250SPECS/DESMANUALSTOPUB/PUBLICATIONSONLINE/OHD/BOOKSTD/INDEX/ASP](http://apps.roads.maryland.gov/BUSINESSWITHSHA/81250SPECS/DESMANUALSTOPUB/PUBLICATIONSONLINE/OHD/BOOKSTD/INDEX/ASP).

THE FOLLOWING LIST OF STANDARDS SHALL BE USED WITHIN THIS PROJECT:  
STD. NO.

MD 362.01	STANDARD TYPE H ENDWALL METAL OR CONCRETE ROUND PIPE
MD 368.01	STANDARD CONCRETE END SECTION ROUND CONCRETE PIPE
MD 374.51	PRECAST OR CAST IN PLACE SQUARE AND RECTANGULAR COG INLETS 5', 10', 15' & 20'
MD 374.55	PRECAST CONCRETE INLET SLABS AND ADJUSTMENT COLLARS FOR COG AND COS INLETS
MD 374.61	PRECAST OR CAST IN PLACE SQUARE AND RECTANGULAR COS INLETS 5', 10', 15' & 20'
MD 374.68	PRECAST OR CAST-IN-PLACE COG/COS OPENING FOR 8" CURB 5' OR 10' ONLY
MD 378.03	STANDARD SINGLE OR DOUBLE OPENING TYPE K INLET OPEN-END GRATE NON-TRAFFIC AREAS
MD 383.00	48" SQUARE STANDARD SHALLOW MANHOLE
MD 578.01	REPAIRING PAVEMENT OPENINGS FOR UTILITY TRENCHES
MD 580.03	NEW COMBINATION CURB AND GUTTER PLACEMENT ALONG EXISTING PAVEMENT
MD 580.08	DRIVEWAYS AND BIKE PATHS PAVEMENT SECTIONS
MD 620.02	STANDARD TYPES A & B CONCRETE CURB AND COMBINATION CONCRETE CURB & GUTTER
MD 620.03	DEPRESSED CURB FOR COMBINATION CURB AND GUTTER AND DEPRESSED CURB FOR SIDEWALK RAMPS
MD 630.02	STANDARD ENTRANCE CONSTRUCTION RESIDENTIAL & COMMERCIAL METHOD NO. 2
MD 635.01	MAILBOX PLACEMENT DETAILS
MD 655.11	SIDEWALK RAMPS PERPENDICULAR
MD 655.40	DETECTABLE WARNING SURFACES
MD 657.00	STANDARD STAIRWAYS
MC 811.01	METHODS OF GRADING SIDE SLOPES
SUP-FR(FN)-301	CHAIN LINK SAFETY FENCE-RETAINING WALLS AND BOX CULVERTS GENERAL NOTES
SUP-FR(FN)-302	TYPE III CHAIN LINK SAFETY FENCE-RETAINING WALLS AND BOX CULVERTS
REBAR-BL-101	BAR LAP DIMENSIONS FOR GRADE 60 REINFORCING STEEL IN MIX NO. 3 (3500 P.S.I.) CONCRETE
REBAR-DL-101	DEVELOPMENT LENGTH DIMENSIONS GRADE 60 REINFORCING STEEL IN MIX NO. 3 (3500 P.S.I.) CONCRETE
REBAR-BB-101	BAR BEND TYPES
REBAR-BB-102	REINFORCING STEEL HOOK TABLES AND DIAGRAMMS
RW-301	RETAINING WALL AND WING WALL DRAINAGE SYSTEMS


NOTE: ALL ITEMS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT VERSION OF THE REFERENCED STANDARD AT THE TIME OF CONSTRUCTION.

## UPDATED 90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL		 MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878		<b>PLAN SHEET INDX-01</b> <b>INDEX OF SHEETS</b> <b>MD 355 - CLARKSBURG</b> <b>SHARED USE PATH</b>	
RECOMMENDED FOR APPROVAL CHM, Design Section APPROVED		Date		SCALE: NO SCALE	
CHM, Division of Engineering Services		Date		08/2020	
Designed by: J.D.W. Drawn by: J.D.W. Checked by: S.R.R.		Project No.: C.L.P. PR. # 501744		SHEET 02 of 88	
NO.	REVISION	DATE	BY		

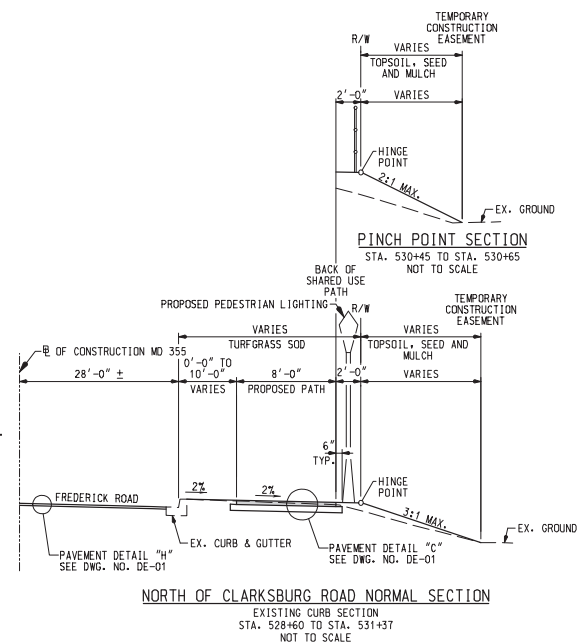
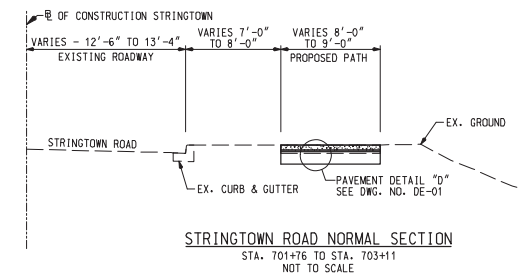
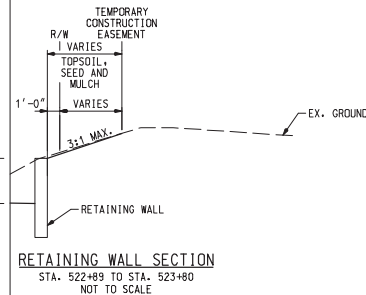
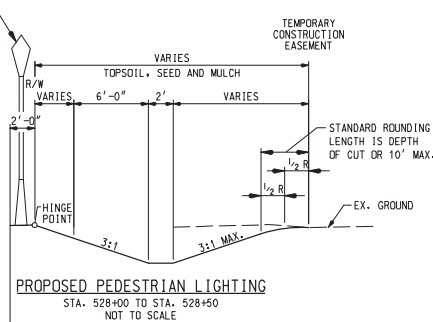
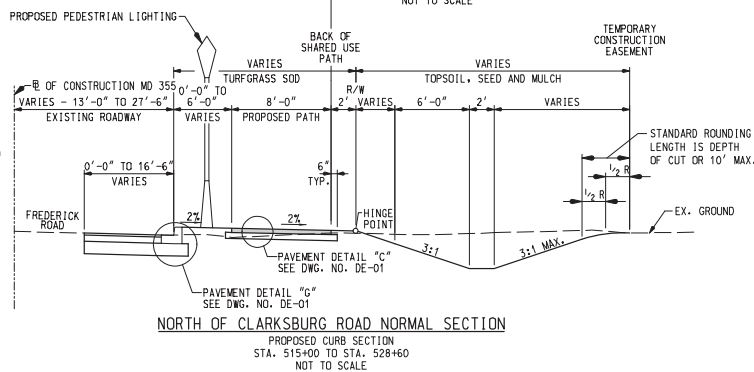
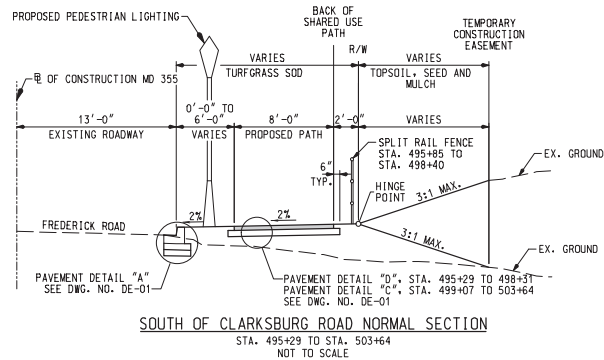
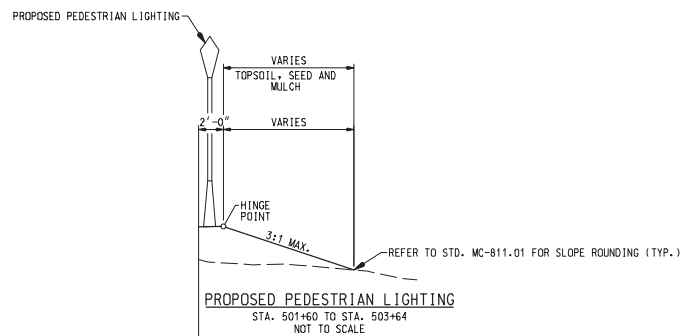
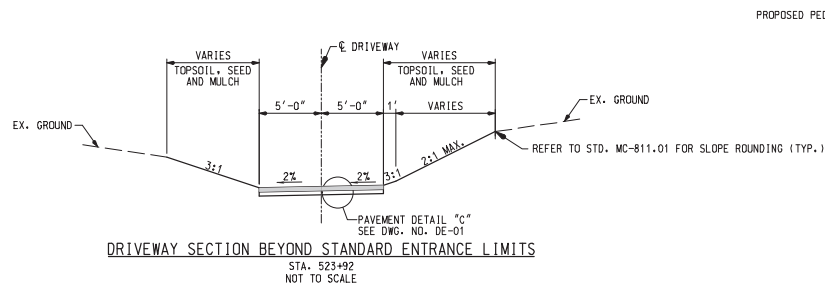


 **WALLACE  
MONTGOMERY**  
ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS  
10150 York Road, Suite 200  
Hunt Valley, Maryland 21090  
410.494.9093 Tel / 410.667.0925 Fax  
[www.wallace-montgomery.com](http://www.wallace-montgomery.com) A United Facility Partners

	<b>MONTGOMERY COUNTY</b> <b>DEPARTMENT OF TRANSPORTATION</b> <b>100 EDISON PARK DRIVE, 4TH FLOOR</b> <b>GAITHERSBURG, MD 20878</b>		
	<b>RECOMMENDED FOR APPROVAL</b>		
	Chief, Design Section _____ APPROVED	_____ Date	
	Chief, Division of Engineering Services _____ _____ _____	_____ _____ Date	
Designed by : J.D.W.      Drawn by : J.D.W.      Checked by : S.R.			

PLAN SHEET GN-01  
GENERAL NOTES AND DEFINITIONS  
MD 355 - CLARKSBURG  
SHARED USE PATH

PLOTTED: 9/24/2020  
FILE: M:\PROJ\214013\0010\Highways\ Cadd \eGN--N001 MD355.dwg



# UPDATED 90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY



MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

CHM, Design Section

APPROVED

CHM, Division of Engineering Services

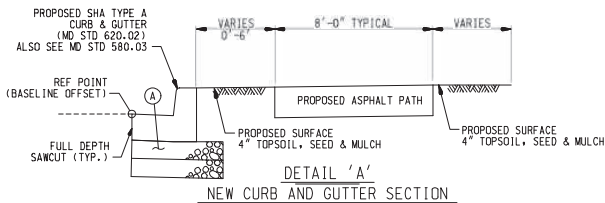
Designed by: J.D.W. Drawn by: J.D.W. Checked by: S.R.R.

FILED: 08/07/2018 3:00 PM Highway Code\_Ver11-001 MD355.dgn

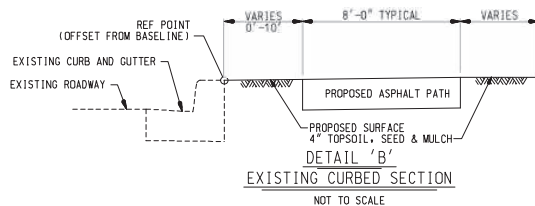
## PLAN SHEET TS-01 TYPICAL SECTIONS MD 355 - CLARKSBURG SHARED USE PATH

SCALE: N.T.S. 08/2020  
Project No.: C.L.P. PR. # 501744 SHEET 04 of 88

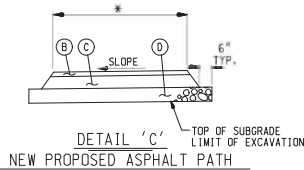




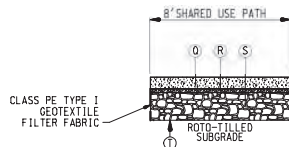
NOT TO SCALE  
 ① 12" BASE COURSE USING GRADED AGGREGATE (2-6" LIFTS)  
 (INCIDENTAL TO C&G PAYMENT)



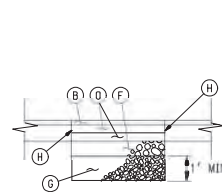
NOT TO SCALE



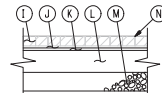
NOT TO SCALE  
 ② 2.0" SUPERPAVE ASPHALT MIX 9.5mm SURFACE, PG 64S-22, L2  
 ③ 3.0" SUPERPAVE ASPHALT MIX 19.0mm BASE, PG 64S-22, L2  
 ④ 4.0" GRADED AGGREGATE BASE COURSE  
 \* 8'-0" FOR SHARED USE PATH, 10'-0" AND VARIES FOR DRIVEWAYS



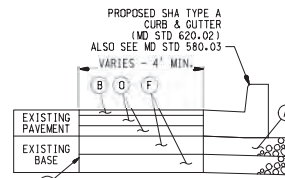
NOT TO SCALE  
 ② 5.0" PERVIOUS CONCRETE SIDEWALK  
 ③ 1.5" AASHTO NO. 8 CHOKER STONE COURSE  
 ④ 12.0" WASHED AASHTO NO. 2 AGGREGATE RESERVOIR  
 ⑤ LIMITS OF EXCAVATION (NO GEOTEXTILE)  
 ⑥ ROTO-TILL SUBGRADE PRIOR TO INSTALLATION



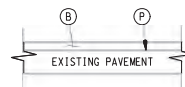
NOT TO SCALE  
 ② 2.0" SUPERPAVE ASPHALT MIX 9.5mm SURFACE, PG 64S-22, L2  
 ③ 4.0" SUPERPAVE ASPHALT MIX 19.0mm BASE, PG 64S-22, L2  
 ④ 6.0" GRADED AGGREGATE BASE COURSE  
 ⑤ NO. 57 AGGREGATE  
 ⑥ FULL DEPTH SAWCUT (TYP.)



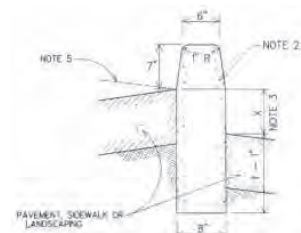
NOT TO SCALE  
 ① 4"x8"x2 1/4" MIN. BRICK PAVERS WITH HAND TIGHT JOINTS AND 3:1 SAND CEMENT SWEEP  
 ② ADHESIVE COAT - NEOPRENE MODIFIED ASPHALT PRIME COAT - LOW VISCOSITY LIQUID ASPHALT  
 ③ 3/4" BITUMINOUS SETTING BED (ADJUST THICKNESS IF PAYER THICKNESS VARIES)  
 ④ 7" POURED CONCRETE BASE, 3500 PSI, 6"x8"x2.1x2.1 WELDED WIRE CONTINUOUS WITHIN SLAB  
 ⑤ 6.0" DENSE GRADED AGGREGATE BASE COURSE  
 ⑥ FINISH GRADE OF PAVEMENT



NOT TO SCALE  
 ② 12" BASE COURSE USING GRADED AGGREGATE (2-6" LIFTS)  
 (INCIDENTAL TO C&G PAYMENT)  
 ③ 2.0" SUPERPAVE ASPHALT MIX 9.5mm SURFACE, PG 64S-22, L2  
 ④ 4.0" SUPERPAVE ASPHALT MIX 19.0mm BASE, PG 64S-22, L2  
 ⑤ 6.0" GRADED AGGREGATE BASE COURSE  
 ⑥ FULL DEPTH SAWCUT (TYP.)



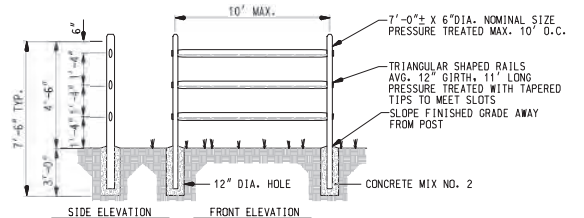
NOT TO SCALE  
 ② 2.0" SUPERPAVE ASPHALT MIX 9.5mm  
 ③ TOP OF EXISTING PAVEMENT AFTER 2.0" FINE MILLING



NOT TO SCALE  
 ① CURB & GUTTER TO BE USED WHERE STORM WATER WILL COLLECT AT FACE OF CURB EXCEPT AS DIRECTED BY THE ENGINEER  
 ② MIX #2 OR MIX #8 CONCRETE AS DIRECTED IN PLAN  
 ③ SPECIAL DESIGN AS RETAINING WALL WHERE THIS DIMENSION EXCEEDS 16 INCHES. THIS BARRIER IS FOR USE ONLY IN OFF-STREET AREAS WHERE VEHICLE SPEEDS ARE MINIMAL.

#### DETAIL 'F' NOTES

- PAVERS SHALL BE WATSON TOWN "GARDEN BLEND" OR APPROVED EQUAL, CLASS SX, TYPE 1, HAVE A COMPRESSIVE STRENGTH OF 10,000 PSI FOR ANY FIVE BLOCK TESTED, SHALL BE CAPABLE OF WITHSTANDING A MIN. OF 100 FREEZE-THAW CYCLES, HAVE AN AVERAGE WATER ABSORPTION RATE OF 4% OR LESS, AND SHALL CONFORM TO ASTM DESIGNATION OF C-902.
- THE BITUMINOUS SETTING SHALL CONSIST OF HOT MIX ASPHALT SUPERPAVE 4.75 MM FOR SURFACE PG58-28 CONFORMING TO AASHTO DESIGNATION M-320.
- A TACK COAT OF 2% NEOPRENE-MODIFIED ASPHALT ADHESIVE SHALL BE USED.
- JOINT FILLER SHALL BE ONE PART PORTLAND CEMENT MIXED WITH THREE PARTS SAND.
- THE 28 DAY COMPRESSIVE STRENGTH FOR THE CONCRETE SUBBASE SHALL BE 3500 PSI.
- PROVIDE 1/2" EXPANSION JOINT WHERE BRICK ABUTS A RIGID STRUCTURE.
- REFER TO MARYLAND SHA SPECIFICATIONS FOR MATERIALS AND METHODS OF CONSTRUCTION.



NOT TO SCALE

#### PERVIOUS CONCRETE SIDEWALK NOTES:

- CONTRACTOR SHALL INSTALL PERVIOUS CONCRETE SIDEWALK PER SPECIFICATIONS.
- REFER TO SECTION 902 OF MDOT SHA STANDARD SPECIFICATIONS, JULY 2019 OR LATEST VERSION, FOR PERVIOUS CONCRETE.
- SUBGRADE MUST BE LEVEL. ROTO-TILL SUBGRADE PRIOR TO INSTALLATION. INSTALL STEPS AS NEEDED TO MAINTAIN MINIMUM 6 INCHES OF AGGREGATE.
- CONSTRUCTION SPECIFICATIONS SHALL MEET MDE STORMWATER DESIGN MANUAL APPENDIX B-4.

#### UPDATED 90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL  
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878	
RECOMMENDED FOR APPROVAL CHM, Design Section APPROVED CHM, Division of Engineering Services	DATE DATE
Designed by: J.D.W. Drawn by: J.D.W. Checked by: S.R.R.	Project No.: C.I.P. PR. # S01744 SHEET 05 of 88

PLAN SHEET DE-01  
 PAVEMENT DETAILS  
 MD 355 - CLARKSBURG  
 SHARED USE PATH

SCALE: NOT TO SCALE  
 08/2020

PLAN SHEET	BASELINE STATION	EASTBOUND ROADWAY BACK OF CURVE OFFSET	EASTBOUND ROADWAY BACK OF CURVE ELEVATION	REMARKS
PM-01	513+29.81	13.87 FT	66.29	
PM-02	513+50.00	13.87 FT	66.29	
PM-03	513+75.00	13.87 FT	66.01	
PM-04	516+00.00	13.87 FT	66.00	
PM-05	516+25.00	13.87 FT	65.73	NAIPOINT OF CURVE
PM-06	516+50.00	13.87 FT	65.69	
PM-07	516+50.00	13.87 FT	65.77	
PM-08	516+75.00	13.87 FT	65.70	
PM-09	517+00.00	13.87 FT	65.62	
PM-10	517+00.15	13.87 FT	65.61	
PM-11	517+25.00	13.87 FT	65.40	
PM-12	517+50.00	13.87 FT	65.47	
PM-13	517+75.00	13.87 FT	65.43	
PM-14	518+00.00	13.87 FT	65.38	
PM-15	518+25.00	13.87 FT	65.38	
PM-16	518+50.00	13.87 FT	65.34	
PM-17	518+66.97	13.87 FT	65.32	LOW POINT
PM-18	518+75.00	13.87 FT	65.23	
PM-19	519+00.00	13.87 FT	65.33	

PLAN SHEET	BASISLINE STATION	EASTBOUND ROADWAY BACK OF CURVE OFFSET	EASTBOUND ROADWAY BACK OF CURVE ELEVATION	REMARKS
PG-07	53+06.35(0)	28.87'ET	629.62	MATCH EXISTING
PG-07	53+06.00	28.96'ET	629.17	
PG-07	53+06.00	27.64'ET	629.13	
PG-07	53+06.00	26.52'ET	628.54	
PG-07	53+06.18		628.83	
PG-07	53+08.72	23.99'ET	628.80	HALFPOINT OF CURVE
PG-07	53+08.00		628.77	
PG-07	53+06.67	23.97'ET	628.76	
PG-07	53+08.00	28.55'ET	628.16	
PG-07	53+08.00	28.69'ET	628.13	HALFPOINT OF CURVE
PG-07	53+08.00	28.78'ET	628.13	
PG-07	53+08.02	28.86'ET	628.12	MATCH EXISTING

PS-02	498-02-58	26.09 RT	609.16	
PS-02	499-00-00	26.09 RT	609.03	
PS-02	499-05-20	26.09 RT	609.77	
PS-02	499-11-82	26.09 RT	609.94	
PS-02	499-18-08	26.09 RT	609.11	MIDPOINT OF CURVE
PS-02	499-47-93	23.44 RT	601.28	
PS-02	499-10-00	22.81 RT	601.82	
PS-02	499-18-08	25.11 RT	601.18	MIDPOINT OF CURVE
PS-02	499-10-08	21.87 RT	601.49	
PS-02	499-62-79	21.87 RT	601.37	
PS-02	499-08-84	22.11 RT	601.71	MIDPOINT OF CURVE
PS-02	499-71-24	23.44 RT	601.86	
PS-02	499-05-25	23.77 RT	601.88	
PS-02	499-81-50	25.31 RT	602.05	MIDPOINT OF CURVE
PS-02	499-03-06	26.09 RT	602.28	
PS-02	500-00-00	26.09 RT	602.43	
PS-02	500-05-20	26.09 RT	603.62	
PS-02	500-00-75	26.09 RT	603.65	
PS-02	501-00-00	26.09 RT	603.84	
PS-02	501-25-00	26.09 RT	603.81	
PS-02	501-00-00	26.09 RT	604.11	
PS-02	501-40-94	41.09 RT	604.31	MIDPOINT OF CURVE
PS-02	501-40-93	44.09 RT	604.10	
PS-02	501-18-17	36.09 RT	603.70	
PS-02	501-48-00	40.09 RT	602.99	

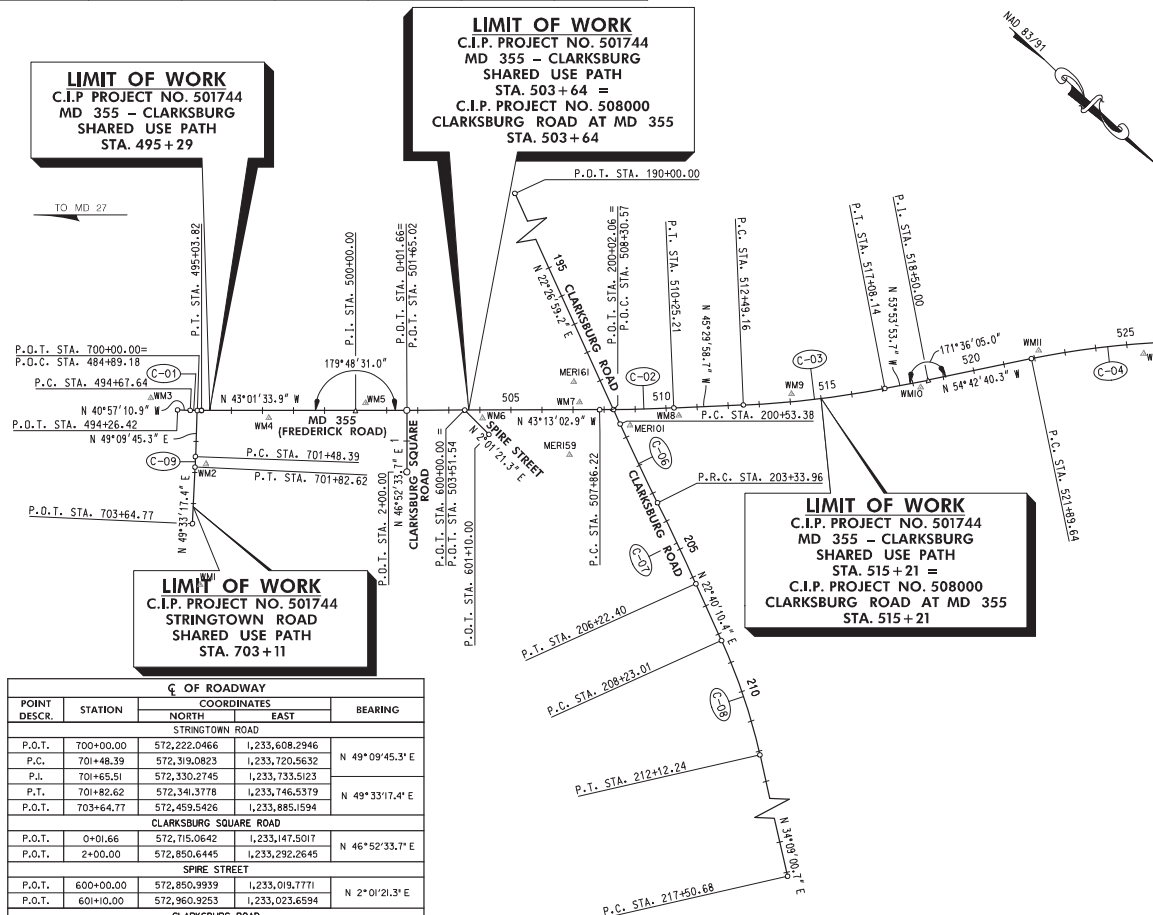
[illegible]

P5-67	528-55.13	38.00' RT	629.28	
P5-67	528-57.03	35.44' RT	629.01	
P5-67	528-59.00	34.52' RT	628.78	
P5-67	528-60.08	34.01' RT	628.63	
P5-67	528-61.48	33.99' RT	628.64	MINORITY OF CURVE
P5-67	528-65.00	34.34' RT	628.61	
P5-67	528-67.40	36.02' RT	628.61	
P5-67	528-70.00	36.72' RT	628.38	
P5-67	528-71.13	38.79' RT	628.38	MINORITY OF CURVE
P5-67	528-73.00	36.72' RT	628.36	
P5-67	528-75.03	36.78' RT	628.47	
P5-67	528-75.58	36.78' RT	628.50	MINORITY OF CURVE
P5-67	530-00.00	38.70' RT	628.68	
P5-67	530-01.37	38.70' RT	628.68	
P5-67	530-04.21	37.44' RT	628.18	MINORITY OF CURVE
P5-67	530-05.03	37.63' RT	628.20	
P5-67	530-06.71	40.30' RT	628.14	
P5-67	530-10.00	44.22' RT	628.78	
P5-67	530-11.53	44.40' RT	628.78	
P5-67	530-18.05	44.03' RT	630.02	
P5-67	530-20.75	44.03' RT	630.48	MINORITY OF CURVE
P5-67	530-25.65	44.03' RT	630.28	
P5-67	531-00.00	47.58' RT	631.28	
P5-67	531-01.81	48.78' RT	631.52	
P5-67	531-03.55	50.33' RT	631.67	MINORITY OF CURVE
P5-67	531-23.00	54.81' RT	631.38	
P5-67	531-28.92	55.01' RT	632.48	

44

CURVE DATA							
CURVE	BASILINE	DELTA	Dc	RADIUS	TANGENT	LENGTH	CHORD
C-01	MD 355 (FREDERICK ROAD)	2°04'23.0" L.T.	5°43'55.1"	1,000.00'	18.09'	36.18'	0.16'
C-02	MD 355 (FREDERICK ROAD)	2°16'55.8" L.T.	0°57'17.8"	6,000.00'	119.51'	238.97'	1.19'
C-03	MD 355 (FREDERICK ROAD)	8°23'55.0" L.T.	1°49'47.7"	3,131.21'	229.30'	458.98'	8.43'
C-04	MD 355 (FREDERICK ROAD)	10°44'32.5" RT.	2°09'20.6"	2,658.00'	249.91'	497.62'	11.72'
C-05	MD 355 (FREDERICK ROAD)	2°40'43.8" L.T.	1°12'24.3"	4,748.00'	111.02'	221.99'	1.30'
C-06	CLARKSBURG ROAD	1°50'45.7" L.T.	0°39'28.6"	8,708.41'	140.30'	280.58'	1.13'
C-07	CLARKSBURG ROAD	2°03'56.9" RT.	0°42'58.3"	8,000.00'	144.24'	288.44'	1.30'
C-08	CLARKSBURG ROAD	11°28'50.3" RT.	2°56'58.6"	1,942.49'	196.27'	389.23'	9.79'
C-09	STRINGTOWN ROAD	0°23'32.1" RT.	1°08'45.3"	5,000.00'	17.12'	34.23'	0.03'

POINT NO.	COORDINATES		ELEVATION	DESCRIPTION
	NORTH	EAST		
WM1	572,612.1750	1,234,012.7190	647.365	REBAR & CAP
WM2	572,360.6198	1,233,715.0813	656.216	REBAR & CAP
WM3	572,085.4874	1,233,681.0420	669.500	REBAR & CAP
WM4	572,406.9292	1,233,468.6510	655.793	REBAR & CAP
WM5	572,601.9950	1,232,221.1993	663.426	REBAR & CAP
WM6	572,910.5108	1,232,999.3619	656.127	REBAR & CAP
WM7	573,103.5557	1,232,748.6685	640.521	REBAR & CAP
WM8	573,366.8426	1,232,561.8287	647.495	REBAR & CAP
WM9	573,584.3873	1,232,263.7441	666.701	REBAR & CAP
WM10	573,813.8993	1,231,964.4479	652.919	MAG NAIL
WM11	574,010.6313	1,231,618.4007	658.264	REBAR & CAP
WM12	574,324.7651	1,231,395.1298	642.679	REBAR & CAP
WM13	574,539.8173	1,231,088.9347	626.893	REBAR & CAP
WM14	574,798.7957	1,230,928.3124	636.191	REBAR & CAP
WM15	575,173.2046	1,231,345.2351	657.911	REBAR & CAP
MER101	573,234.1295	1,232,692.8439	640.58	
MER159	573,195.9319	1,232,895.0696	651.80	
MER161	573,045.9194	1,232,713.7816	635.25	



C OF ROADWAY				
POINT DESCR.	STATION	COORDINATES		BEARING
		NORTH	EAST	
STRINGTOWN ROAD				
P.O.T.	700+00.00	572,222.0466	1,233,608.2946	
P.C.	701+48.39	572,319.0823	1,233,720.5632	N 49°09'45.3" E
P.L.	701+65.51	572,330.2745	1,233,733.5123	
P.T.	701+82.62	572,341.3778	1,233,746.5379	N 49°33'17.4" E
P.O.T.	703+64.77	572,459.5426	1,233,885.1594	
CLARKSBURG SQUARE ROAD				
P.O.T.	0+01.66	572,715.0642	1,233,147.5017	N 46°52'33.7" E
P.O.T.	2+00.00	572,850.6445	1,233,292.2645	
SPIRE STREET				
P.O.T.	600+00.00	572,850.9939	1,233,019.7771	
P.O.T.	601+00.00	572,960.9253	1,233,023.6594	N 2°01'21.3" E
CLARKSBURG ROAD				
P.O.T.	190+00.00	572,273.8601	1,232,308.9732	
P.O.T.	200+02.06	573,199.9788	1,232,691.6332	N 22°26'59.2" E
P.C.	200+53.38	573,247.4101	1,232,711.2315	
P.L.	201+93.68	573,377.0795	1,232,764.8088	
P.R.C.	203+33.96	573,508.4065	1,232,814.1812	N 20°36'13.5" E
P.L.	204+78.20	573,643.4176	1,232,864.9386	
P.T.	206+22.40	573,776.5112	1,232,920.5298	N 22°40'10.4" E
P.C.	208+23.01	573,961.6211	1,232,997.8474	
P.L.	210+18.28	574,141.8028	1,233,073.0666	
P.T.	212+12.24	574,303.4002	1,233,182.7229	N 34°09'00.7" E
P.C.	217+50.68	573,748.9952	1,233,484.9832	

C OF ROADWAY				
POINT DESCR.	STATION	COORDINATES		BEARING
		NORTH	EAST	
MD 355 (FREDERICK ROAD)				
P.O.T.	494+26.42	572,174.0566	1,233,650.2792	
P.C.	494+67.64	572,205.1882	1,233,623.2616	N 40°57'10.9" W
P.L.	494+85.73	572,218.8527	1,233,611.4029	
P.T.	495+03.82	572,232.0793	1,233,599.0577	N 43°01'33.9" W
P.L.	500+00.00	572,594.8068	1,233,260.4999	
P.O.T.	501+65.02	572,715.0642	1,233,147.5017	
P.O.T.	503+51.54	572,850.9939	1,233,019.7771	N 43°13'02.9" W
P.C.	507+86.22	573,167.7764	1,232,722.1166	
P.O.C.	508+30.57	573,199.9788	1,232,691.6332	
P.L.	509+05.73	573,254.8699	1,232,640.2803	
P.T.	510+25.21	573,338.6356	1,232,555.0408	N 45°29'58.7" W
P.C.	512+49.16	573,495.6056	1,232,395.3090	
P.L.	514+79.06	573,656.7479	1,232,231.3315	
P.T.	517+08.14	573,792.2117	1,232,045.5762	N 53°53'53.7" W
P.L.	518+50.00	573,875.7952	1,231,930.9620	
P.C.	521+89.64	574,072.0056	1,231,653.7294	N 54°42'40.3" W
P.L.	524+39.55	574,216.3760	1,231,449.7432	
P.T.	526+87.93	574,396.2380	1,231,276.2415	
P.C.	529+95.26	574,617.3863	1,231,062.9135	N 43°58'07.8" W
P.L.	531+06.28	574,697.2867	1,230,985.8387	
P.T.	532+17.25	574,773.4974	1,230,905.1137	N 46°38'51.6" W
P.O.T.	533+75.17	574,881.9025	1,230,790.2813	



UPDATED 90% SUBMITTAL

DATUM:	NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL	
REVISION	DATE

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

CMR, Design Section

APPROVED

CMR, Division of Engineering Services

Designed by: J.D.W. Drawn by: J.D.W. Checked by: S.R.R.

PLAN SHEET GS-01  
GEOMETRY LAYOUT  
MD 355 - CLARKSBURG  
SHARED USE PATH

SCALE: 1"= 200'

Project No.: C.I.P. PR. # 501744 SHEET 07 of 88

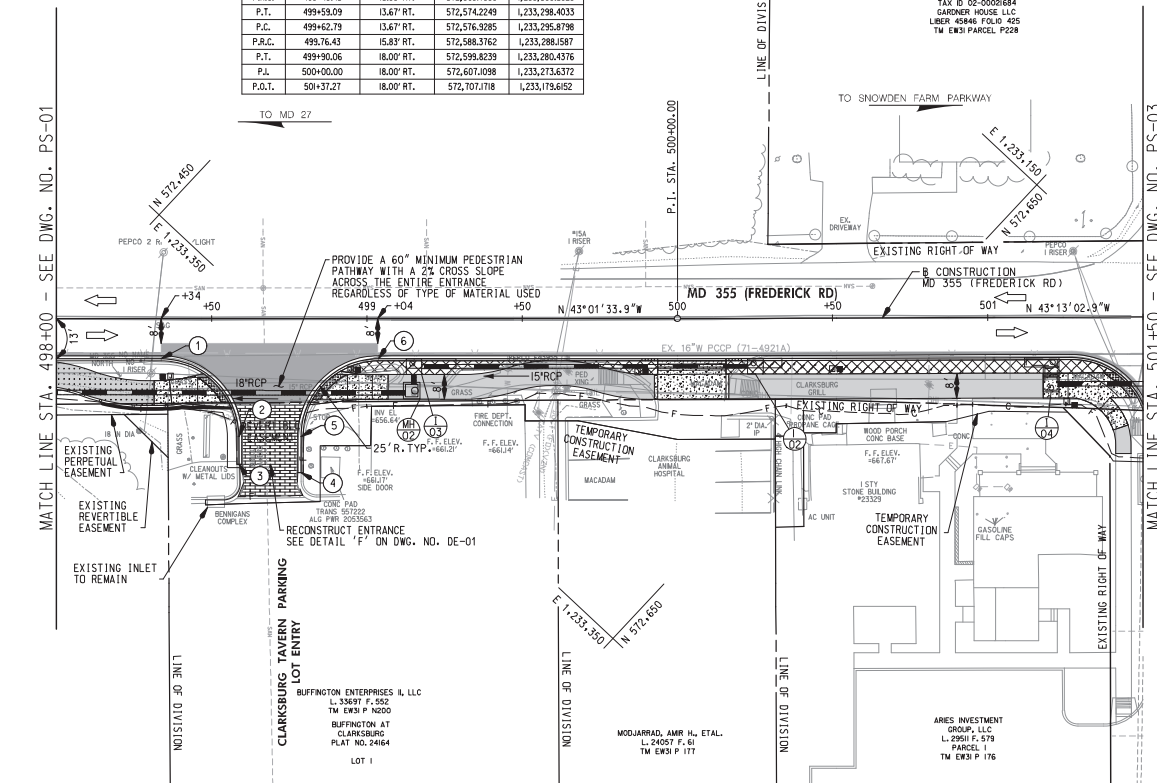




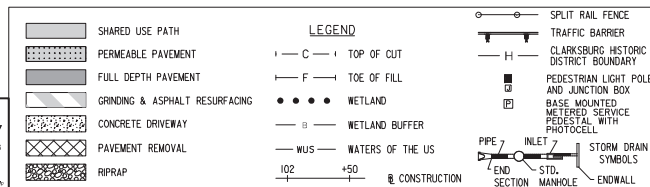
CLARKSBURG TAVERN'S ENTRANCE WORKING POINTS				
CONTROL POINT	STATION	NORTHING	EASTING	OFFSET
1	498+33.76	572,482.1489	1,233,383.4319	13.00' RT.
2	498+58.76	572,517.4833	1,233,384.6497	38.00' RT.
3	498+78.76	572,523.6301	1,233,391.2354	47.00' RT.
4	498+78.76	572,540.0332	1,233,379.4982	45.62' RT.
5	498+78.76	572,532.1042	1,233,371.0031	38.00' RT.
6	499+03.76	572,533.3220	1,233,335.6687	13.00' RT.

SHARED USE PATH FRONT EDGE				
POINT TYPE	STATION	OFFSET	NORTHING	EASTING
P.O.C.	498+00.00	14.05' RT.	572,458.1829	1,233,407.2352
P.R.C.	498+01.34	16.83' RT.	572,483.3364	1,233,401.5304
P.T.	498+28.86	20.00' RT.	572,483.3384	1,233,391.8970
P.C.	498+32.22	20.00' RT.	572,485.7967	1,233,389.6026
P.T.	498+38.83	19.56' RT.	572,490.3283	1,233,384.7730
P.C.	498+39.75	19.44' RT.	572,490.9178	1,233,384.0548
P.T.	498+45.51	19.01' RT.	572,494.8371	1,233,379.8064
P.O.T.	498+93.82	18.00' RT.	572,529.4680	1,233,346.1054
P.C.	499+31.82	18.00' RT.	572,557.2429	1,233,320.1813
P.R.C.	499+45.45	15.83' RT.	572,565.7339	1,233,309.2923
P.T.	499+55.09	13.67' RT.	572,574.2249	1,233,298.4033
P.C.	499+62.79	13.67' RT.	572,576.3285	1,233,295.8798
P.R.C.	499+76.43	15.83' RT.	572,588.3762	1,233,288.1587
P.T.	499+80.06	18.00' RT.	572,599.8239	1,233,280.4376
P.J.	500+00.00	18.00' RT.	572,607.1098	1,233,273.6372
P.O.T.	500+37.27	18.00' RT.	572,707.7718	1,233,179.6152

UTILITY ADJUSTMENTS			
UTILITY	STATION	OFFSET	REMARKS
WATER LINE (WSSC)	498+21 TO 500+57	11' RT. TO 11' RT.	WSSC WORK WILL BE DONE UNDER SAME CONTRACT
WATER VALVE (WSSC)	499+45	15' RT.	
WATER HOUSE CONNECTION (WSSC)	499+55	15' RT.	
FIRE HYDRANT (WSSC)	499+65	18' RT.	
WATER HOUSE CONNECTION (WSSC)	500+36	18' RT.	
CURB STOP (WSSC)	500+80	21' RT.	



- NOTES:
1. ALL CONSTRUCTION WITHIN THE SHA RIGHT OF WAY SHALL CONFORM TO SHA STANDARD CERTIFICATIONS AND DETAILS FOR CONSTRUCTION AND MATERIALS.
  2. DAILY LANE CLOSURES SHALL BE IN ACCORDANCE WITH MD 104.02-01 THRU MD 104.02-10.
  3. ALL INTERIOR RADI FOR SHARED USE PATH SHALL BE 60' UNLESS OTHERWISE NOTED.
  4. UTILITY RELOCATIONS WILL BE DESIGNED AND INSTALLED BY OTHERS, AND ARE NOT PART OF THIS CONTRACT.



#### UPDATED 90% SUBMITTAL

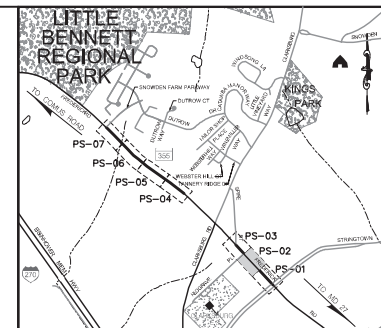
DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY



MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL  
CHM, Design Section  
APPROVED  
CHM, Division of Engineering Services  
Designed by: J.D.W. Drawn by: J.D.W. Checked by: S.R.R.  
Project No.: C.L.P. PR. # 501744 SHEET 09 of 88



#### LOCATION MAP

SCALE 1"=1000'

STANDARD TYPE A COMBINATION CURB AND GUTTER,  
12 INCH GUTTER PAN, 8 INCH MIN. DEPTH (MD 620.02)

82 L.F. MD 355 (FREDERICK ROAD) - STA. 498+00 TO STA. 498+60, RT.  
303 L.F. MD 355 (FREDERICK ROAD) - STA. 498+78 TO STA. 501+50, RT.

#### REMOVAL OF EXISTING PAVEMENT

7 C.Y. MD 355 (FREDERICK ROAD) - STA. 498+92 TO STA. 499+59  
3 C.Y. MD 355 (FREDERICK ROAD) - STA. 499+63 TO STA. 499+94  
19 C.Y. MD 355 (FREDERICK ROAD) - STA. 500+16 TO STA. 501+41

#### DETECTABLE WARNING SURFACE FOR CURB RAMP (MD 655.40)

22 S.F. MD 355 (FREDERICK ROAD) - STA. 498+53, RT.  
23 S.F. MD 355 (FREDERICK ROAD) - STA. 498+86, RT.  
23 S.F. MD 355 (FREDERICK ROAD) - STA. 501+45, RT.

#### SIDEWALK RAMP CONSTRUCTION

MD 355 (FREDERICK ROAD) - STA. 498+53, RT. MD 655.11  
MD 355 (FREDERICK ROAD) - STA. 498+86, RT. MD 655.11  
MD 355 (FREDERICK ROAD) - STA. 501+45, RT. MD 655.11

#### 8 INCH PORTLAND CEMENT CONCRETE PAVEMENT FOR DRIVEWAY MIX NO. 9 (MD 630.02)

32 S.Y. MD 355 (FREDERICK ROAD) - STA. 499+94 TO STA. 500+16, RT.

#### BARRIER CURB (SEE DWG. NO. TS-01)

44 L.F. MD 355 (FREDERICK ROAD) - STA. 498+00 TO STA. 498+44, RT.

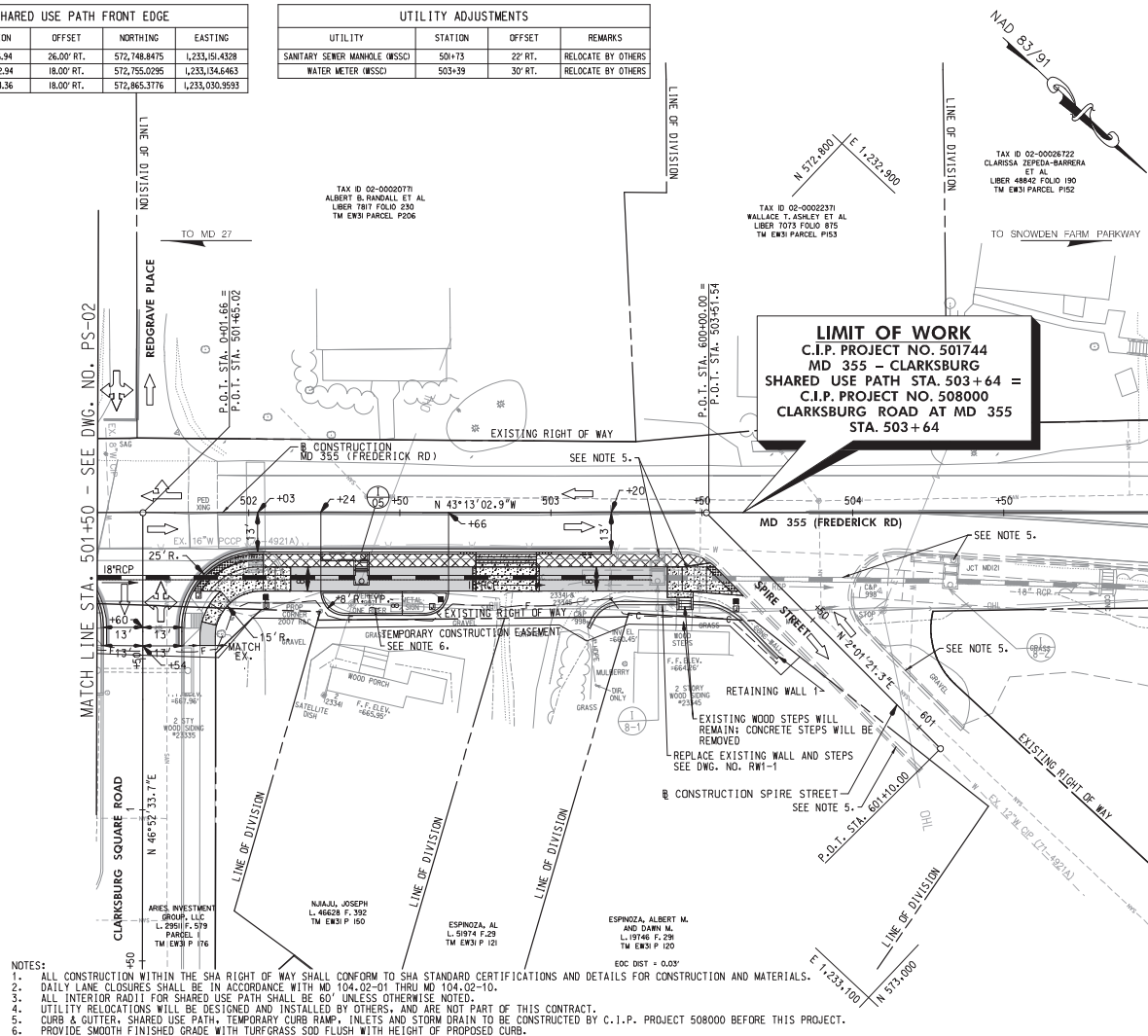
### PLAN SHEET PS-02 ROADWAY PLANS MD 355 - CLARKSBURG SHARED USE PATH STA. 498+00 TO STA. 501+50

SCALE 1"=20' 08/2020



SHARED USE PATH FRONT EDGE				
POINT TYPE	STATION	OFFSET	NORTHING	EASTING
P.C.	501+86.94	26.00' RT.	572,748.8475	1,233,151.4328
P.T.	502+02.94	18.00' RT.	572,755.0295	1,233,134.6463
P.O.T.	503+54.36	18.00' RT.	572,865.3776	1,233,030.9593

UTILITY ADJUSTMENTS			
UTILITY	STATION	OFFSET	REMARKS
SANITARY SEWER MANHOLE (WSSC)	501+73	22' RT.	RELOCATE BY OTHERS
WATER METER (WSSC)	503+39	30' RT.	RELOCATE BY OTHERS



- NOTES:
1. ALL CONSTRUCTION WITHIN THE SHA RIGHT OF WAY SHALL CONFORM TO SHA STANDARD CERTIFICATIONS AND DETAILS FOR CONSTRUCTION AND MATERIALS.
  2. DAILY LANE CLOSURES SHALL BE IN ACCORDANCE WITH MD 104.02-01 THRU MD 104.02-10.
  3. ALL INTERIOR RADIUS FOR SHARED USE PATH SHALL BE 60' UNLESS OTHERWISE NOTED.
  4. UTILITY RELOCATIONS WILL BE DESIGNED AND INSTALLED BY OTHERS, AND ARE NOT PART OF THIS CONTRACT.
  5. CURB & GUTTER, SHARED USE PATH, TEMPORARY CURB RAMP, INLETS AND STORM DRAIN TO BE CONSTRUCTED BY C.I.P. PROJECT 508000 BEFORE THIS PROJECT.
  6. PROVIDE SMOOTH FINISHED GRADE WITH TURFGRASS SO FLUSH WITH HEIGHT OF PROPOSED CURB.

SHARED USE PATH  
 PERMEABLE PAVEMENT  
 FULL DEPTH PAVEMENT  
 GRINDING & ASPHALT RESURFACING  
 CONCRETE DRIVEWAY  
 PAVEMENT REMOVAL  
 RIPRAP

**LEGEND**

— C — TOP OF CUT

— F — TOE OF FILL

• • • • • WETLAND

— B — WETLAND BUFFER

— WUS — WATERS OF THE US

102 +50

CONSTRUCTION

SPLIT RAIL FENCE  
 TRAFFIC BARRIER  
 CLARKSBURG HISTORIC DISTRICT BOUNDARY  
 PEDESTRIAN LIGHT POLE AND JUNCTION BOX  
 BASE MOUNTED METEDED SERVICE PEDESTAL WITH PHOTOCELL  
 PIPE  
 INLET  
 STORM DRAIN  
 MANHOLE  
 ENDWALL

**UPDATED 90% SUBMITTAL**

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL			
NO.	REVISION	DATE	BY

MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 100 EDISON PARK DRIVE, 4TH FLOOR  
 GAITHERSBURG, MD 20878

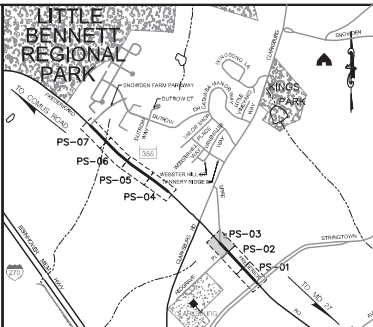
RECOMMENDED FOR APPROVAL

CHM, Design Section

APPROVED

CHM, Division of Engineering Services

Designed by: J.D.W. Drawn by: J.D.W. Checked by: S.R.R.



**LOCATION MAP**

SCALE 1"=1000'

STANDARD TYPE A COMBINATION CURB AND GUTTER, 12 INCH GUTTER PAN, 8 INCH MIN. DEPTH (MD 620.02)	
16 L.F.	MD 355 (FREDERICK ROAD) - STA. 501+50 TO STA. 501+52, RT.
162 L.F.	MD 355 (FREDERICK ROAD) - STA. 501+78 TO STA. 503+20, RT.

STANDARD TYPE 'A' CURB (MD 620.02)	
94 L.F.	MD 355 (FREDERICK ROAD) - STA. 502+24 TO STA. 502+66, RT.

REMOVAL OF EXISTING PAVEMENT	
11 C.Y.	MD 355 (FREDERICK ROAD) - STA. 501+50 TO STA. 502+75, RT.
9 C.Y.	MD 355 (FREDERICK ROAD) - STA. 502+95 TO STA. 503+50, RT.

DETECTABLE WARNING SURFACE FOR CURB RAMPS (MD 655.40)	
52 S.F.	MD 355 (FREDERICK ROAD) - STA. 501+92, RT.
23 S.F.	MD 355 (FREDERICK ROAD) - STA. 503+58, RT.

SIDEWALK RAMP CONSTRUCTION (MD 655.40)	
MD 355 (FREDERICK ROAD) - STA. 501+92, RT.	MD 655J3
MD 355 (FREDERICK ROAD) - STA. 503+58, RT.	MD 655J1

8 INCH PORTLAND CEMENT CONCRETE PAVEMENT FOR DRIVEWAY MIX NO. 9 (MD 630.02)	
30 S.Y.	MD 355 (FREDERICK ROAD) - STA. 502+75 TO STA. 502+95, RT.

RELOCATE MAILBOX	
2 EA.	MD 355 (FREDERICK ROAD) - STA. 503+11, RT.

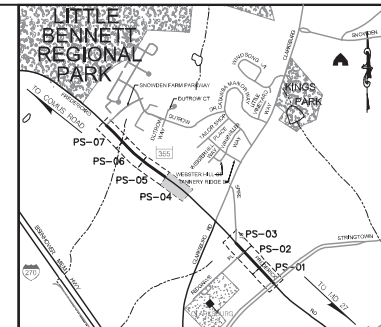
CONCRETE STEPS (MD 657.00)	
1 C.Y.	MD 355 (FREDERICK ROAD) - STA. 503+44, RT.

**PLAN SHEET PS-03  
ROADWAY PLANS  
MD 355 - CLARKSBURG  
SHARED USE PATH  
STA. 501+50 TO STA. 505+00**

SCALE: 1"=20'  
 08/2020  
 Project No.: C.I.P. PR. # 501744 SHEET 10 of 88

**WALLACE MONTGOMERY**  
 ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS  
 10150 York Road, Suite 200  
 Hunt Valley, Maryland 21036  
 410.424.0925 Tel / 410.287.0925 Fax  
 www.wallacemontgomery.com

© 2020 Wallace Montgomery



LOCATION MAP

SCALE 1"=1000'

STANDARD TYPE A COMBINATION CURB AND GUTTER,  
12 INCH GUTTER PAN, 8 INCH MIN. DEPTH (MD 620.02)

371 LF. MD 355 (FREDERICK ROAD) - STA. 515+28 TO STA. 519+00, RT.

REMOVAL OF EXISTING PAVEMENT

38 C.Y. MD 355 (FREDERICK ROAD) - STA. 515+30 TO STA. 518+28, RT.  
1 C.Y. MD 355 (FREDERICK ROAD) - STA. 518+48 TO STA. 518+57, RT.

8 INCH PORTLAND CEMENT CONCRETE PAVEMENT  
FOR DRIVEWAY MIX NO. 9 (MD 630.02)

30 S.Y. MD 355 (FREDERICK ROAD) - STA. 518+28 TO STA. 518+48, RT.

CLASS I RIPRAP FOR SLOPE AND CHANNEL PROTECTION

28 S.Y. MD 355 (FREDERICK ROAD) - STA. 516+47, RT.  
12 S.Y. MD 355 (FREDERICK ROAD) - STA. 518+10, LT.  
9 S.Y. MD 355 (FREDERICK ROAD) - STA. 518+15, RT.

FLOWABLE BACKFILL FOR PIPE ABANDONMENT

2 C.Y. MD 355 (FREDERICK ROAD) - STA. 518+63, 15' RT. TO 17' LT.

PLAN SHEET PS-04  
ROADWAY PLANS  
MD 355 - CLARKSBURG  
SHARED USE PATH  
STA. 514+50 TO STA. 519+00

SCALE: 1"=20' 08/2020

DRIVEWAY STAKEOUT POINTS - STA. 518+38

POINT	STATION	OFFSET	ELEVATION
1	518+28	27' RT.	653.32
2	518+48	27' RT.	653.32
3	518+36	44' RT.	654.39
4	518+44	43.5' RT.	654.25

FOR PAVEMENT SECTION, REFER TO DETAIL 'C' ON DD-01

UTILITY ADJUSTMENTS

UTILITY	STATION	OFFSET	REMARKS
WATER LINE (WSSC)	518+27 TO 518+70	12' RT. TO 12' RT.	RELOCATE BY OTHERS
WATER METER (WSSC)	518+27	29' RT.	RELOCATE BY OTHERS
UTILITY POLE (VERIZON)	516+52	21' RT.	RELOCATE BY OTHERS
UTILITY POLE (VERIZON)	518+05	19' RT.	RELOCATE BY OTHERS

SHARED USE PATH FRONT EDGE

POINT TYPE	STATION	OFFSET	NORTHING	EASTING
P.C.	515+27.58	17.52' RT.	573,695.2089	1,232,199.4379
P.B.C.	515+56.56	17.52' RT.	573,713.6041	1,232,176.8347
P.G.C.	515+69.87	19.00' RT.	573,723.358	1,232,167.3279
P.T.	517+08.15	19.00' RT.	573,807.5622	1,232,056.7704
P.A.	518+50.00	19.00' RT.	573,891.2251	1,231,942.0473
P.O.T.	519+00.00	19.00' RT.	573,920.871	1,231,901.0249

C-03  
CURVE DATA  
DELTA = 8°23'55.0" LT.  
Dc = 1°49'47.1"  
R = 3,131.21'  
L = 458.98'  
T = 229.90'  
CH = 458.98'  
E = 8.43'

**LIMIT OF WORK**  
C.I.P. PROJECT NO. 501744  
MD 355 - CLARKSBURG  
SHARED USE PATH STA. 515+21 =  
C.I.P. PROJECT NO. 508000  
CLARKSBURG ROAD AT MD 355  
STA. 515+21

- NOTES:
1. ALL CONSTRUCTION WITHIN THE SHA RIGHT OF WAY SHALL CONFORM TO SHA STANDARD CERTIFICATIONS AND DETAILS FOR CONSTRUCTION AND MATERIALS.
  2. DAILY LANE CLOSURES SHALL BE IN ACCORDANCE WITH MD 104.02-01 THRU MD 104.02-10.
  3. ALL INTERIOR RADI FOR SHARED USE PATH SHALL BE 60' UNLESS OTHERWISE NOTED.
  4. UTILITY RELOCATIONS WILL BE DESIGNED AND INSTALLED BY OTHERS, AND ARE NOT PART OF THIS CONTRACT.
  5. CURB & GUTTER, SHARED USE PATH, TEMPORARY CURB RAMP, INLETS, MANHOLE AND STORM DRAIN TO BE CONSTRUCTED BY C.I.P. PROJECT 508000 BEFORE THIS PROJECT.
  6. ABANDON EXISTING 18" CMP STORM DRAIN USING FLOWABLE BACKFILL.
  7. REGRADE EXISTING CHANNEL. REFER TO RIPRAP CHANNEL DETAIL ON DD-01 AND GRADING ON SC-07.

**LEGEND**

SHARED USE PATH	C TOP OF CUT	SPLIT RAIL FENCE
PERMEABLE PAVEMENT	F TOE OF FILL	TRAFFIC BARRIER
FULL DEPTH PAVEMENT	WETLAND	CLARKSBURG HISTORIC DISTRICT BOUNDARY
GRINDING & ASPHALT RESURFACING	WETLAND BUFFER	PEDESTRIAN LIGHT POLE AND JUNCTION BOX
CONCRETE DRIVEWAY	WUS WATERS OF THE US	BASE MOUNTED METERED SERVICE PEDESTAL WITH PHOTOCELL
PAVEMENT REMOVAL	CONSTRUCTION	PIPE SECTION
RIPRAP	INLET	STORM DRAIN SYMBOLS
	END OF SECTION	MANHOLE
	END WALL	

UPDATED 90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

CNR, Design Section  
APPROVED \_\_\_\_\_ Date \_\_\_\_\_

CNR, Division of Engineering Services  
APPROVED \_\_\_\_\_ Date \_\_\_\_\_

Designed by: J.D.W. Drawn by: J.D.W. Checked by: S.R.R. Project No.: C.I.P. PR. # 501744 SHEET 11 of 88

**WALLACE MONTGOMERY**  
ENGINEERING-PLANNING-CONSTRUCTION SERVICES  
10150 York Road, Suite 200  
Hanover, Maryland 21070  
410.268.0655 Toll Free 1-800-887-0925 Fax  
www.wallacemontgomery.com

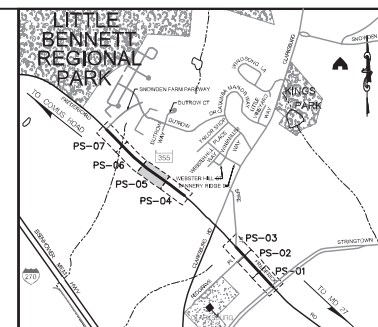
**C-04**  
**CURVE DATA**  
 DELTA = 10° 44' 32.5" RT.  
 Dc = 2° 09' 20.6"  
 R = 2,658.00'  
 L = 498.35'  
 T = 249.91'  
 CH = 497.62'  
 E = 11.72'

POINT TYPE	STATION	OFFSET	NORTHING	EASTING
P.B.T.	519+00.00	19.00' RT.	573,920.877	L231,901.249
P.C.	519+35.00	19.00' RT.	573,940.468	L231,872.474
P.R.C.	519+49.21	20.43' RT.	573,949.786	L231,861.706
P.R.C.	519+73.39	20.43' RT.	573,963.748	L231,842.053
P.T.	519+87.49	19.00' RT.	573,970.734	L231,829.700
P.C.	520+80.82	19.00' RT.	574,024.638	L231,753.028
P.R.C.	520+89.91	19.69' RT.	574,030.462	L231,746.508
P.T.	521+00.52	20.50' RT.	574,037.249	L231,738.320
P.C.	521+08.02	20.50' RT.	574,044.582	L231,732.984
P.R.C.	521+18.62	19.69' RT.	574,047.046	L231,723.070
P.T.	521+27.71	19.00' RT.	574,051.738	L231,715.258
P.C.	521+58.67	19.00' RT.	574,063.626	L231,689.981
P.R.C.	522+46.83	19.00' RT.	574,128.709	L231,626.169
P.R.C.	522+74.53	17.63' RT.	574,136.199	L231,595.870
P.C.C.	522+89.62	16.00' RT.	574,143.983	L231,582.976
P.O.C.	523+50.00	16.00' RT.	574,181.032	L231,535.727

UTILITY	STATION	OFFSET	REMARKS
FIRE HYDRANT (WSSC)	519+55	21' RT.	RELOCATE BY OTHERS
WATER HOUSE CONNECTION (WSSC)	520+25	16' RT.	RELOCATE BY OTHERS
WATER METER (WSSC)	520+25	27' RT.	RELOCATE BY OTHERS

POINT	STATION	OFFSET	ELEVATION
1	520+20	27' RT.	654.85
2	520+40	27' RT.	655.00
3	520+24	39' RT.	656.71
4	520+40	39' RT.	657.36

FOR PAVEMENT SECTION, REFER TO DETAIL 'C' ON DE-01



**LOCATION MAP**  
 SCALE 1"=1000'

STANDARD TYPE A COMBINATION CURB AND GUTTER,  
 12 INCH GUTTER PAN, 8 INCH MIN. DEPTH (MD 620.02)  
 449 L.F. MD 355 (FREDERICK ROAD) - STA. 519+00 TO STA. 523+50, RT.

**REMOVAL OF EXISTING PAVEMENT**

9 C.Y. MD 355 (FREDERICK ROAD) - STA. 519+52 TO STA. 520+14, RT.  
 1 C.Y. MD 355 (FREDERICK ROAD) - STA. 520+41 TO STA. 520+47, RT.

**8 INCH PORTLAND CEMENT CONCRETE PAVEMENT  
 FOR DRIVEWAY MIX NO. 9 (MD 630.02)**

33 S.Y. MD 355 (FREDERICK ROAD) - STA. 520+20 TO STA. 520+40, RT.  
 27 S.Y. MD 355 (FREDERICK ROAD) - STA. 522+64 TO STA. 522+84, RT.

**REMOVAL OF EXISTING MASONRY**

4 C.Y. MD 355 (FREDERICK ROAD) - STA. 521+90, RT. (STONE WALL)

**RELOCATE MAILBOX**

1 EA. MD 355 (FREDERICK ROAD) - STA. 520+44, RT.

**REMOVE EXISTING FENCE**

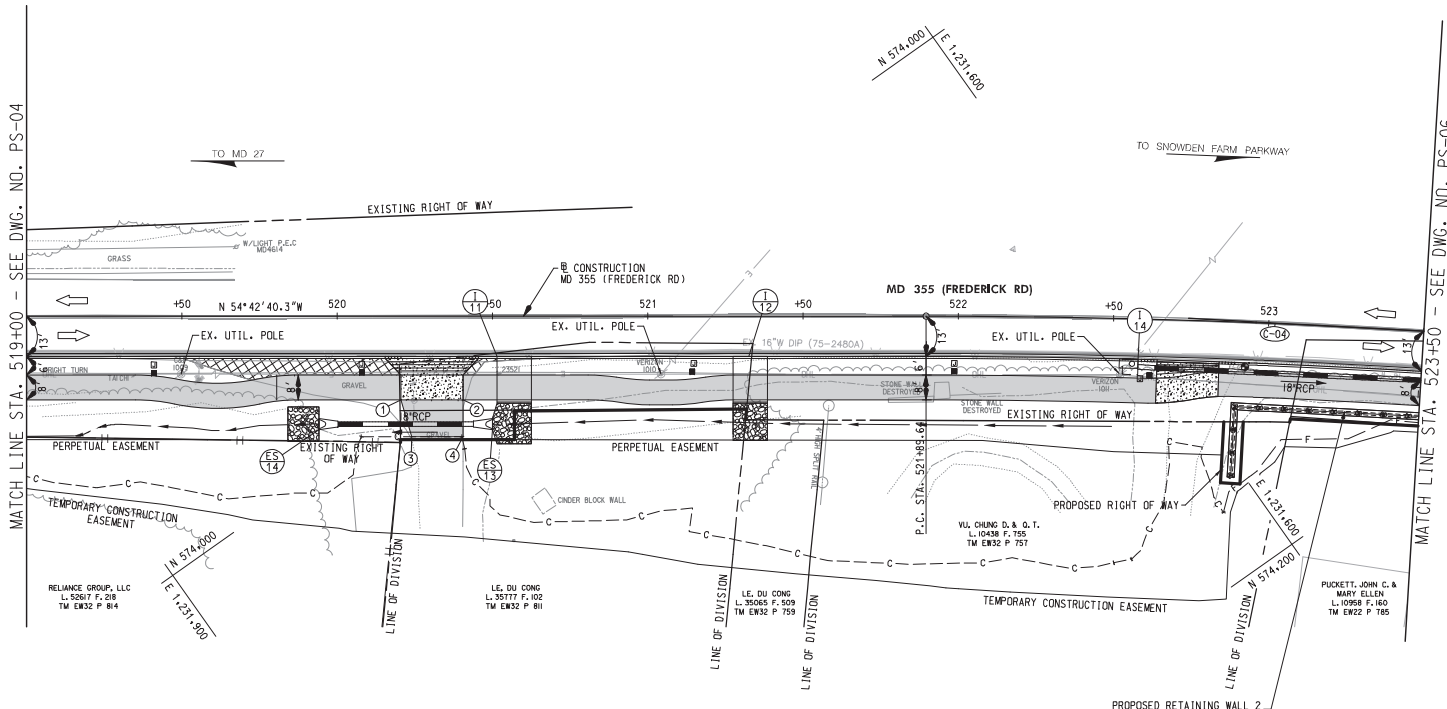
32 L.F. MD 355 (FREDERICK ROAD) - STA. 521+56 TO STA. 521+58, RT.

**CLASS I RIPRAP FOR SLOPE AND CHANNEL PROTECTION**

12 S.Y. MD 355 (FREDERICK ROAD) - STA. 519+49, RT.  
 16 S.Y. MD 355 (FREDERICK ROAD) - STA. 520+57, RT.  
 12 S.Y. MD 355 (FREDERICK ROAD) - STA. 521+33, RT.

MATCH LINE STA. 519+00 - SEE DWG. NO. PS-04

MATCH LINE STA. 523+50 - SEE DWG. NO. PS-06



- NOTES:**
1. ALL CONSTRUCTION WITHIN THE SHA RIGHT OF WAY SHALL CONFORM TO SHA STANDARD CERTIFICATIONS AND DETAILS FOR CONSTRUCTION AND MATERIALS.
  2. DAILY LANE CLOSURES SHALL BE IN ACCORDANCE WITH MD 104-02-01 THRU MD 104-02-10.
  3. ALL INTERIOR RADI FOR SHARED USE PATH SHALL BE 60' UNLESS OTHERWISE NOTED.
  4. UTILITY RELOCATIONS WILL BE DESIGNED AND INSTALLED BY OTHERS, AND ARE NOT PART OF THIS CONTRACT.

LEGEND	
	SHARED USE PATH
	PERMEABLE PAVEMENT
	FULL DEPTH PAVEMENT
	GRINDING & ASPHALT RESURFACING
	CONCRETE DRIVEWAY
	PAVEMENT REMOVAL
	RIPRAP
	TOP OF CUT
	TOE OF FILL
	WETLAND
	WETLAND BUFFER
	WATERS OF THE US
	CONSTRUCTION
	SPLIT RAIL FENCE
	TRAFFIC BARRIER
	CLARKSBURG HISTORIC DISTRICT BOUNDARY
	PEDESTRIAN LIGHT POLE AND JUNCTION BOX
	BASE MOUNTED METERED SERVICE PEDESTAL WITH PHOTOCELL
	STORM DRAIN SYMBOLS
	PIPE INLET
	END MANHOLE

**UPDATED 90% SUBMITTAL**

DATUM: NAD 83/91 HORIZONTAL  
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

**MONTGOMERY COUNTY**  
 DEPARTMENT OF TRANSPORTATION  
 100 EDISON PARK DRIVE, 4TH FLOOR  
 GAITHERSBURG, MD 20878

DESIGNED FOR APPROVAL: \_\_\_\_\_  
 DATE: \_\_\_\_\_

APPROVED: \_\_\_\_\_  
 DATE: \_\_\_\_\_

CHIEF, Division of Engineering Services: \_\_\_\_\_  
 DATE: \_\_\_\_\_

Designed by: J.D.W. Drawn by: J.D.W. Checked by: S.R.R. Project No.: C.I.P. PR. # S01744 SHEET 12 of 88



**PLAN SHEET PS-05  
 ROADWAY PLANS  
 MD 355 - CLARKSBURG  
 SHARED USE PATH  
 STA. 519+00 TO STA. 523+50**

SCALE: 1"=20' 08/2020

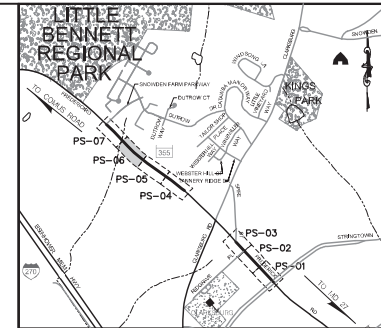
**C-04**  
**CURVE DATA**  
 DELTA = 10° 44' 32.5" RT.  
 Dc = 2° 09' 20.6"  
 R = 2,658.00'  
 L = 498.35'  
 CH = 249.91'  
 E = 11.72'

POINT TYPE	STATION	OFFSET	NORTHING	EASTING
P.O.C.	523+50.00	16.00' RT.	574,181.032	1,231,535.7227
P.C.C.	523+80.32	16.00' RT.	574,200.082	1,231,512.3262
P.T.	523+93.40	17.22' RT.	574,209.2231	1,231,503.0813
P.C.	524+44.79	26.37' RT.	574,249.1345	1,231,470.0806
P.R.C.	524+61.94	31.47' RT.	574,264.1040	1,231,460.6110
P.C.C.	525+01.39	39.67' RT.	574,296.0701	1,231,436.9404
P.T.	526+87.99	39.67' RT.	574,423.1763	1,231,304.7893
P.C.	527+88.85	39.67' RT.	574,496.3689	1,231,234.7637
P.O.C.	528+00.00	38.62' RT.	574,503.6670	1,231,226.2721

UTILITY	STATION	OFFSET	REMARKS
WATER HOUSE CONNECTION (WSSC)	523+80	12' RT.	RELOCATE BY OTHERS
UTILITY POLE (VERIZON)	524+11	21' RT.	RELOCATE BY OTHERS
UTILITY POLE (VERIZON)	524+87	28' RT.	RELOCATE BY OTHERS
UNDERGROUND FIBER OPTIC (VZ)	527+76	45' RT.	RELOCATE BY OTHERS

POINT	STATION	OFFSET	ELEVATION
1	523+87	24' RT.	653.00
2	523+97	26' RT.	652.98
3	523+89	37' RT.	655.45
4	523+99	36' RT.	655.34
5	523+90	62' RT.	660.36
6	524+00	61' RT.	661.6

FOR PAVEMENT SECTION, REFER TO DETAIL "C" ON DE-01



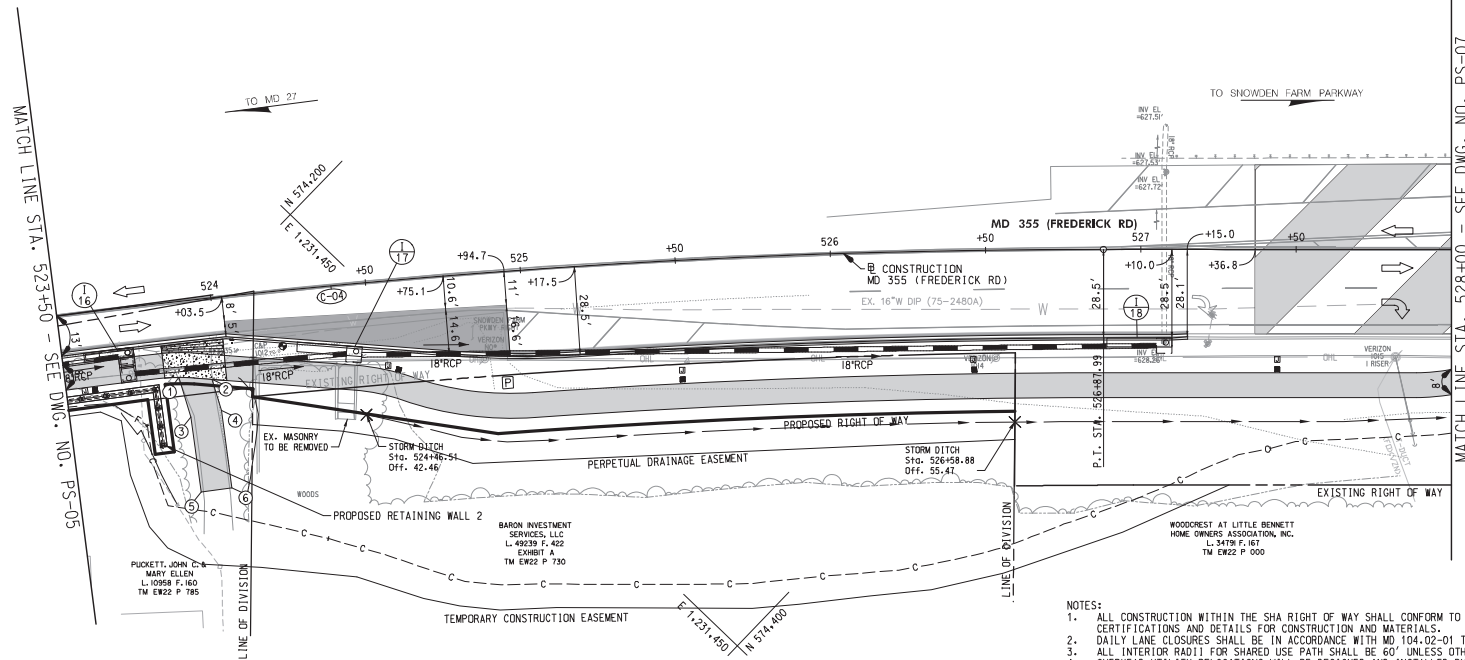
**LOCATION MAP**  
 SCALE 1"=1000'

STANDARD TYPE A COMBINATION CURB AND GUTTER,  
 12 INCH GUTTER PAN, 8 INCH MIN. DEPTH (MD 620.02)  
 364 L.F. MD 355 (FREDERICK ROAD) - STA. 523+50 TO STA. 524+55, RT.

8 INCH PORTLAND CEMENT CONCRETE PAVEMENT  
 FOR DRIVEWAY MIX NO. 9 (MD 630.02)  
 26 S.Y. MD 355 (FREDERICK ROAD) - STA. 523+82 TO STA. 524+02, RT.

REMOVAL OF EXISTING MASONRY  
 20 C.Y. MD 355 (FREDERICK ROAD) - STA. 524+09 TO STA. 524+55, RT.  
 (STONE WALL AND STEPS)

RELOCATE MAILBOX  
 1 EA. MD 355 (FREDERICK ROAD) - STA. 524+03, RT.



- NOTES:
1. ALL CONSTRUCTION WITHIN THE SHA RIGHT OF WAY SHALL CONFORM TO SHA STANDARD CERTIFICATIONS AND DETAILS FOR CONSTRUCTION AND MATERIALS.
  2. DAILY LANE CLOSURES SHALL BE IN ACCORDANCE WITH MD 104.02-01 THRU MD 104.02-10.
  3. ALL INTERIOR RADII FOR SHARED USE PATH SHALL BE 60' UNLESS OTHERWISE NOTED.
  4. OVERHEAD UTILITY RELOCATIONS WILL BE DESIGNED AND INSTALLED BY OTHERS.

SHARED USE PATH  
 PERMEABLE PAVEMENT  
 FULL DEPTH PAVEMENT  
 GRINDING & ASPHALT RESURFACING  
 CONCRETE DRIVEWAY  
 PAVEMENT REMOVAL  
 RIPRAP

**LEGEND**

— C — TOP OF CUT  
 — F — TOE OF FILL  
 • • • • • WETLAND  
 — B — WETLAND BUFFER  
 — WUS — WATERS OF THE US  
 — +50 — CONSTRUCTION

— SPLIT RAIL FENCE  
 — TRAFFIC BARRIER  
 — CLARKSBURG HISTORIC DISTRICT BOUNDARY  
 — PEDESTRIAN LIGHT POLE AND JUNCTION BOX  
 — BASE MOUNTED METEDED SERVICE PEDESTAL WITH PHOTOCELL  
 — PIPE INLET  
 — END STD. MANHOLE  
 — STORM DRAIN SYMBOLS

**UPDATED 90% SUBMITTAL**

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL			
NO.	REVISION	DATE	BY

RECOMMENDED FOR APPROVAL

CHM, Design Section

APPROVED

CHM, Division of Engineering Services

Design by: J.D.W. Drawn by: J.D.W. Checked by: S.R.R.

**PLAN SHEET PS-06**  
**ROADWAY PLANS**  
**MD 355 - CLARKSBURG**  
**SHARED USE PATH**  
**STA. 523+50 TO STA. 528+00**

SCALE: 1"=20'  
 PROJECT NO.: C.I.P. PR. # S01744 SHEET 13 OF 88

**WALLACE MONTGOMERY**  
 ENGINEERING PLANNING SURVEYING CONSTRUCTION SERVICES  
 10150 York Road, Suite 200  
 Hunt Valley, Maryland 21038  
 410.436.0625 Toll 410.437.0625 Fax  
 www.wallacemontgomery.com



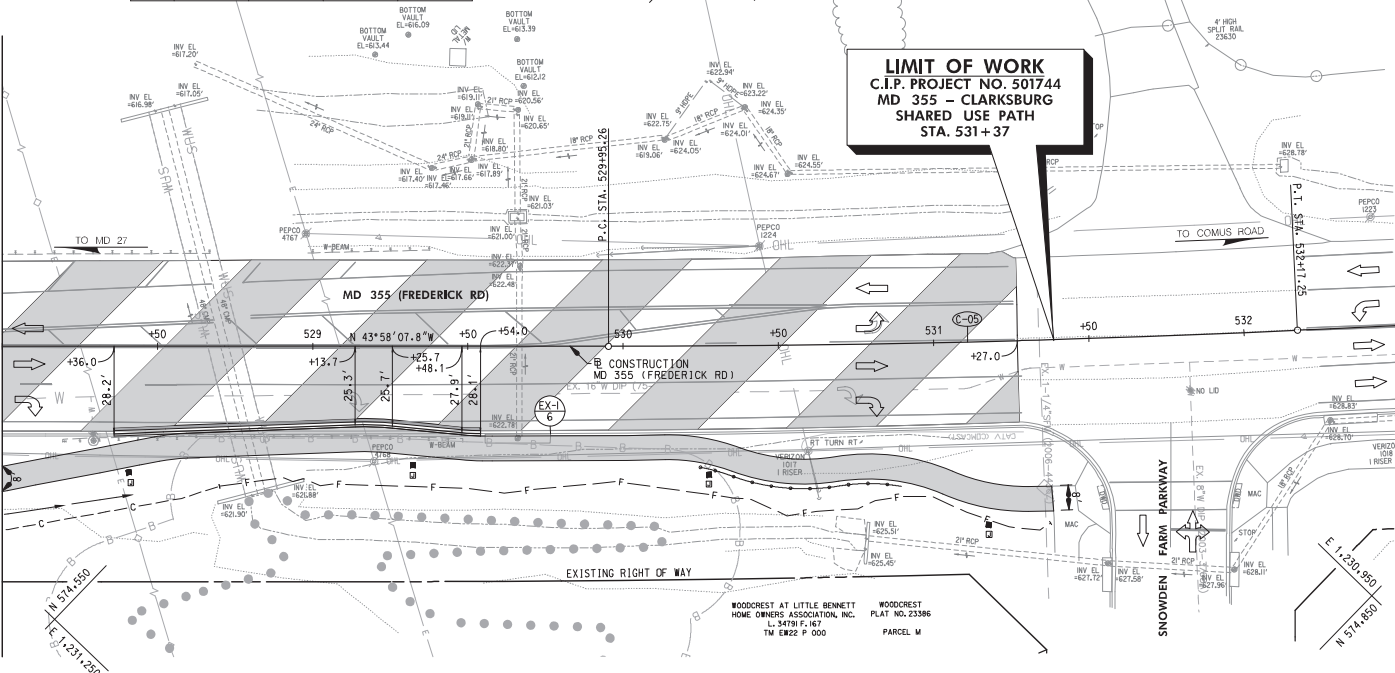
C-05

CURVE DATA

DELTA = 2°40'43.9" LT.  
Dc = 1°12'24.3"  
R = 4,748.00'  
L = 221.99'  
T = 111.02'  
CH = 221.97'  
E = 1.30'

POINT	STATION	OFFSET	NORTHING	EASTING
P.O.C.	528+00.00	38.62' RT.	574,503.6670	L231,226.2720
P.T.	528+00.71	38.59' RT.	574,503.7691	L231,226.2726
P.C.	528+49.00	29.19' RT.	574,532.4572	L231,185.3909
P.T.	528+59.44	28.01' RT.	574,539.0779	L231,177.3109
P.C.	529+13.77	26.01' RT.	574,576.7931	L231,138.2140
P.T.	529+25.67	26.37' RT.	574,585.6084	L231,130.2061
P.C.	529+48.00	28.53' RT.	574,603.8802	L231,116.2629
P.T.	529+54.02	28.86' RT.	574,607.1319	L231,112.3930
P.A.	530+01.20	28.69' RT.	574,641.6046	L231,079.4135
P.C.	530+13.29	28.56' RT.	574,650.2455	L231,070.8463
P.R.C.	530+37.51	32.88' RT.	574,670.6916	L231,056.9018
P.R.C.	530+67.65	36.4' RT.	574,694.5849	L231,037.8862
P.O.C.	530+95.00	41.51' RT.	574,725.0592	L231,014.9417
P.T.	531+29.06	47.01' RT.	574,745.9429	L231,000.5796
P.O.B.	531+36.60	47.18' RT.	574,751.3704	L231,996.2392

MATCH LINE STA. 528+00 - SEE DWG. NO. PS-06



NOTES:

1. ALL CONSTRUCTION WITHIN THE SHA RIGHT OF WAY SHALL CONFORM TO SHA STANDARD CERTIFICATIONS AND DETAILS FOR CONSTRUCTION AND MATERIALS.
2. DAILY LANE CLOSURES SHALL BE IN ACCORDANCE WITH MD 104-02-01 THRU MD 104-02-10.
3. ALL INTERIOR RADIUS FOR SHARED USE PATH SHALL BE 60' UNLESS OTHERWISE NOTED.
4. UTILITY RELOCATIONS WILL BE DESIGNED AND INSTALLED BY OTHERS, AND ARE NOT PART OF THIS CONTRACT.

LEGEND		LEGEND	
	SHARED USE PATH		SPLIT RAIL FENCE
	PERMEABLE PAVEMENT		TRAFFIC BARRIER
	FULL DEPTH PAVEMENT		CLARKSBURG HISTORIC DISTRICT BOUNDARY
	GRINDING & ASPHALT RESURFACING		PEDESTRIAN LIGHT POLE AND JUNCTION BOX
	CONCRETE DRIVEWAY		BASE MOUNTED METERED SERVICE PEDESTAL WITH PHOTOCELL
	PAVEMENT REMOVAL		STORM DRAIN SYMBOLS
	RIPRAP		PIPE INLET
	CONSTRUCTION		END WALL
	TOP OF CUT		
	TOE OF FILL		
	WETLAND		
	WETLAND BUFFER		
	WATERS OF THE US		
	CONSTRUCTION		

UPDATED 90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

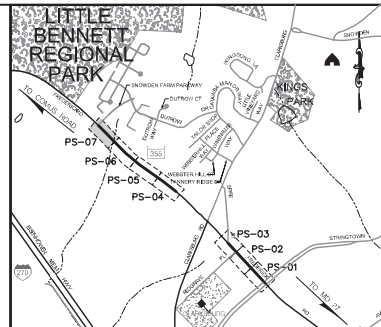


MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL		Date
CHM, Design Section		
APPROVED		
CHM, Division of Engineering Services		
Designed by: J.D.W.	Drawn by: J.D.W.	Checked by: S.R.R.

PLAN SHEET PS-07  
ROADWAY PLANS  
MD 355 - CLARKSBURG  
SHARED USE PATH  
STA. 528+00 TO STA. 531+37  
SCALE: 1"=20'

Project No.: C.I.P. PR. # 501744 SHEET 14 of 88



LOCATION MAP

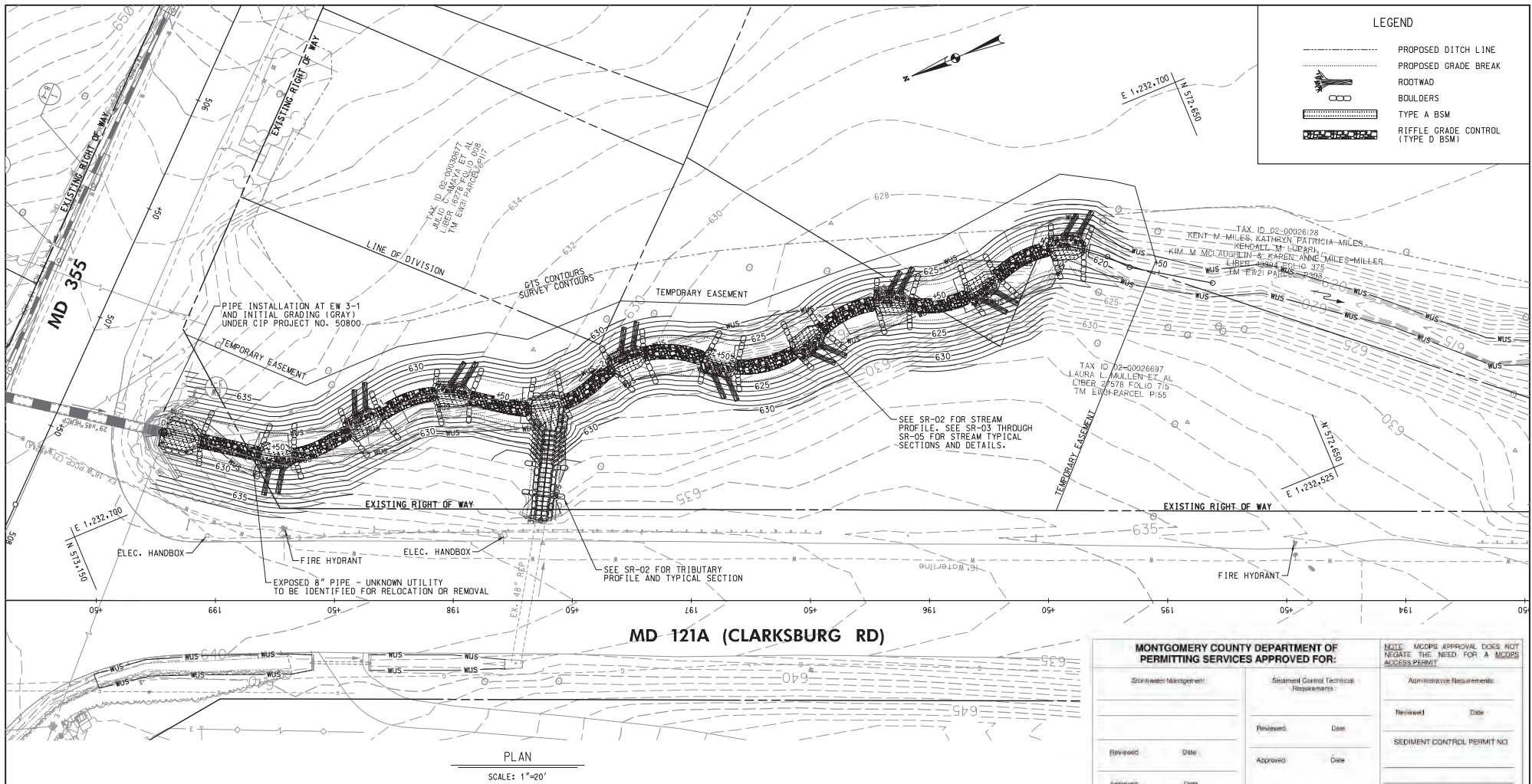
SCALE 1"=1000'

STANDARD TYPE A COMBINATION CURB AND GUTTER,  
12 INCH GUTTER PAN, 8 INCH MIN. DEPTH (MD 620.02)  
119 L.F. MD 355 (FREDERICK ROAD) - STA. 528+36 TO STA. 529+48, RT.

REMOVAL AND DISPOSAL OF EXISTING TRAFFIC  
BARRIER W BEAM  
134 L.F. MD 355 (FREDERICK ROAD) - STA. 528+20 TO STA. 529+48, RT.

SPLIT RAIL FENCE  
66 L.F. MD 355 (FREDERICK ROAD) - STA. 530+25 TO STA. 530+89, RT.





**LEGEND**

- PROPOSED DITCH LINE
- PROPOSED GRADE BREAK
- ROOTWAD
- BOULDERS
- TYPE A BSM
- RIFFLE GRADE CONTROL (TYPE D BSM)

MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:		
<b>Stormwater Management:</b> Reviewed: _____ Date: _____ Approved: _____ Date: _____ SM FILE # _____	<b>Sediment Control Technical Requirements:</b> Reviewed: _____ Date: _____ Approved: _____ Date: _____	<b>Administrative Requirements:</b> Reviewed: _____ Date: _____ SEDIMENT CONTROL PERMIT NO. _____ APPROVAL OF THIS PLAN WILL EXPIRE TWO YEARS FROM THE DATE OF APPROVAL IF THE PROJECT HAS NOT BEEN COMPLETED.

DPS approval of a sediment control or stormwater management plan is for demonstrated compliance with minimum environmental funds treatment standards and does not create or imply any right to divert or concentrate runoff onto any adjacent property without that property owner's permission. It does not relieve the design engineer or other responsible person of professional liability or ethical responsibility for the adequacy of the drainage design, as it affects right-of-way or shared properties.

**WALLACE MONTGOMERY**  
 ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MONITORS  
 10150 York Road, Suite 200  
 Hunt Valley, Maryland 21030  
 410.484.2600 Fax 410.987.0925  
 www.wallacemontgomery.com



**UPDATED 90% SUBMITTAL**

DATUM: NAD 83/91 HORIZONTAL  
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

**MONTGOMERY COUNTY**  
 DEPARTMENT OF TRANSPORTATION  
 100 EDISON PARK DRIVE, 4TH FLOOR  
 GAITHERSBURG, MD 20878

**RECOMMENDED FOR APPROVAL**

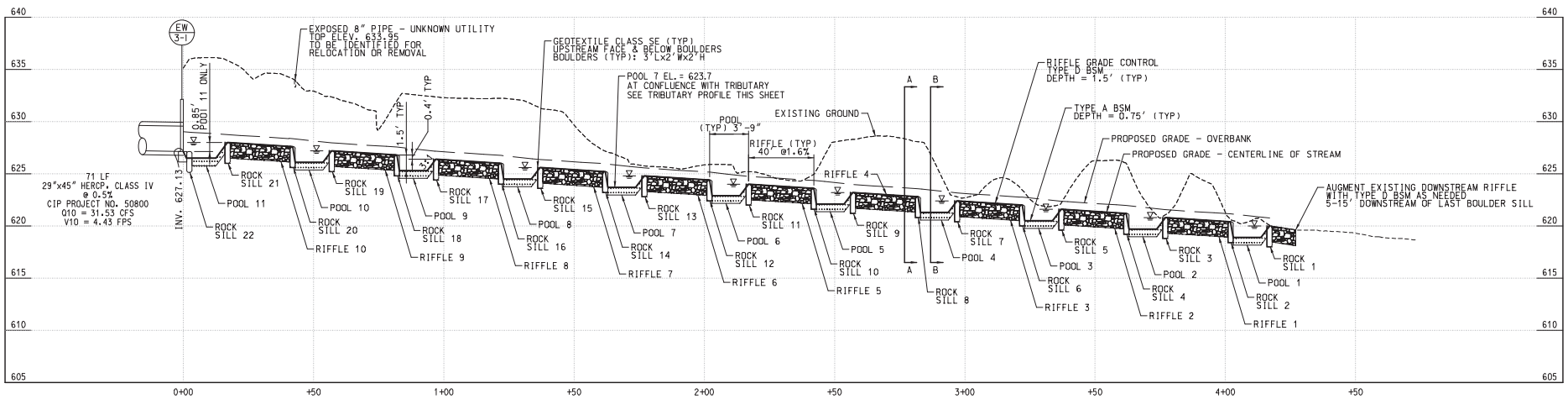
Chief, Design Section: \_\_\_\_\_ Date: \_\_\_\_\_  
 APPROVED

Chief, Division of Engineering Services: \_\_\_\_\_ Date: \_\_\_\_\_

Designed by: L.E.W. Drawn by: L.E.W. Checked by: C.V.M.

**PLAN SHEET SR-01**  
**STREAM RESTORATION PLAN**  
**MD 355 - CLARKSBURG**  
**SHARED USE PATH**

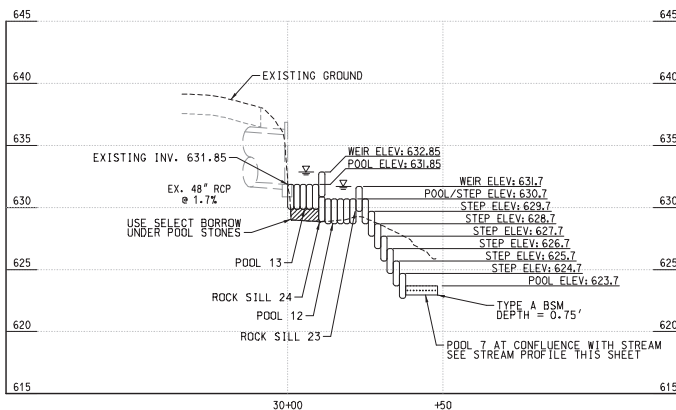
SCALE: 1"=20'  
 08/2020  
 Project No.: C.I.P. PR. # 501744 SHEET 15 of 88



STREAM PROFILE

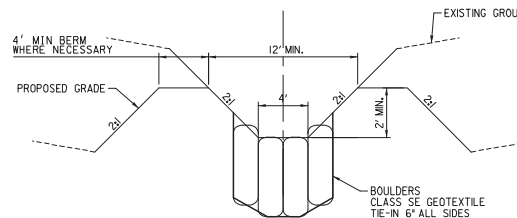
SCALE: HOR. 1"=20'  
VERT. 1"=5'

NOTE:  
SEE SR-03 THROUGH SR-05 FOR TYPICAL  
SECTIONS AND DETAILS. CHANNEL DEPTHS  
VARY BETWEEN SECTIONS ACCORDING TO  
PROFILE.



TRIBUTARY PROFILE

SCALE: HOR. 1"=20'  
VERT. 1"=5'

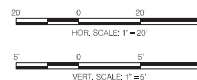


TRIBUTARY TYPICAL SECTION

NOT TO SCALE

MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:		NOTE: MCIPS APPROVAL DOES NOT NEGATE THE NEED FOR A MCIPS ACCESS PERMIT.
Stormwater Management:	Sediment Control Technical Requirements:	Administrative Requirements:
Reviewed: _____	Reviewed: _____	Reviewed: _____
Date: _____	Date: _____	Date: _____
Approved: _____	Approved: _____	SEDIMENT CONTROL PERMIT NO: _____
Date: _____	Date: _____	MCIPS APPROVAL OF THIS PLAN WILL EXPIRE TWO YEARS FROM THE DATE OF APPROVAL IF THE PROJECT HAS NOT STARTED.
SM FILE # _____		

GPS approval or a sediment control or stormwater management plan is for documented conditions with minimum environmental land treatment standards and does not create or imply any right to divert or concentrate runoff onto any adjacent property without that property owner's permission. It does not relieve the design engineer or other responsible person of professional liability or ethical responsibility for the substance of the drainage design or its effects upon or to adjacent properties.



UPDATED 90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY



MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

CHM, Design Section

APPROVED

CHM, Division of Engineering Services

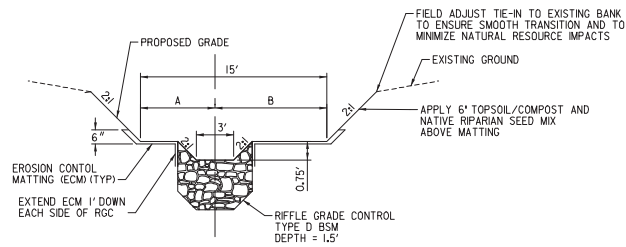
DESIGNED BY: L.E.W. DRAWN BY: L.E.W. CHECKED BY: C.V.M.

FILE: SR-02-2018-3.0010\figshare\Code-Drainage\SR-02-2018-3.0010.dgn

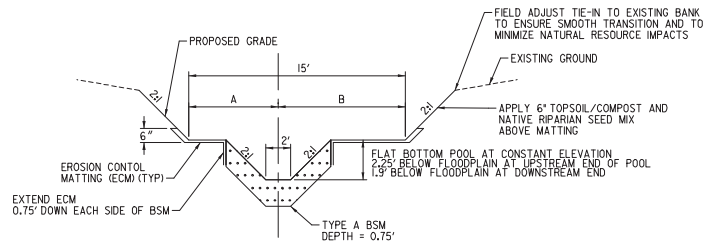
PLAN SHEET SR-02  
STREAM RESTORATION PROFILE  
MD 355 - CLARKSBURG  
SHARED USE PATH

SCALE AS NOTED

08/2020



A-A RIFFLE TYPICAL SECTION  
NOT TO SCALE



B-B POOL TYPICAL SECTION  
NOT TO SCALE

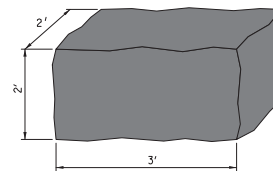
NOTE:  
ADD ROOTWADS TO POOL AS SHOWN ON PLANS. PLACE ROOTWADS ON THE SIDE OF POOL WITH 3' FLOODPLAIN

OVERBANK STAKEOUT TABLE

STATION	A	B
0+00	9'	6'
0+70	6'	9'
1+35	9'	6'
1+90	6'	9'
2+40	9'	6'
2+90	6'	9'
3+35	9'	6'
3+70	6'	9'

NATIVE RIPARIAN SEED MIX

PERCENT	COMMON NAME	SCIENTIFIC NAME
25%	VIRGINIA WILD RYE	<i>Elymus virginicus</i>
10%	ANNUAL RYE	<i>Lolium multiflorum</i>
20%	RIVERBANK WILD RYE	<i>Elymus riparius</i>
15%	RED FESCUE	<i>Festuca rubra</i> L.
10%	DEERTONGUE	<i>Dischanthelium clandestinum</i>
20%	BOTTLEBRUSH	<i>Elymus hystrix</i>



TYPICAL BOULDER  
NOT TO SCALE

MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:		NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED FOR A MCDPS ACCESS PERMIT
Stormwater Management:	Sediment Control Technical Requirements:	Administrative Requirements:
Reviewed: _____ Date: _____	Reviewed: _____ Date: _____	Reviewed: _____ Date: _____
Approved: _____ Date: _____	Approved: _____ Date: _____	SEDIMENT CONTROL PERMIT NO. _____
SIM FILE # _____		MCDPS APPROVAL OF THIS PLAN SHALL EXPIRE TWO YEARS FROM THE DATE OF APPROVAL IF THE PROJECT HAS NOT STARTED.
DPS approval of a sediment control or stormwater management plan is for demonstrated compliance with minimum environmental runoff treatment standards and does not create or imply any right to divert or concentrate runoff onto any adjacent property without that property owner's permission. It does not relieve the design engineer or other responsible person of professional liability or ethical responsibility for the adequacy of the drainage design as it affects upland or downland properties.		

UPDATED 90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

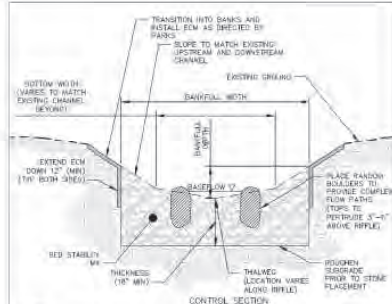
MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL	_____	Date: _____
CHM, Design Section	_____	_____
APPROVED	_____	_____
CHM, Division of Engineering Services	_____	Date: _____
Designed by: L.E.W.	Drawn by: L.E.W.	Checked by: C.V.M.

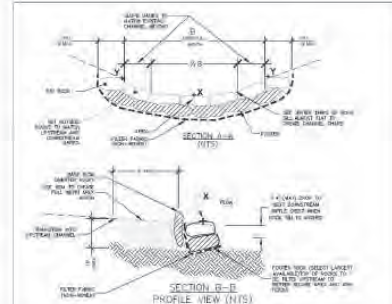
PLAN SHEET SR-03  
STREAM RESTORATION TYP. SECTIONS  
MD 355 - CLARKSBURG  
SHARED USE PATH

SCALE: N.T.S. 08/2020  
Project No.: C.I.P. PR. # S01744 SHEET 17 of 88

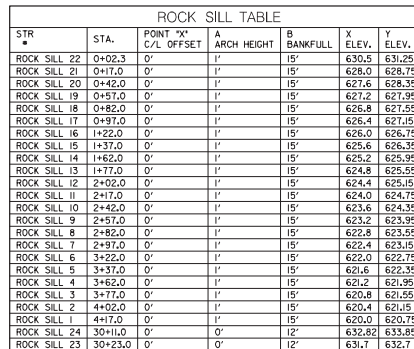


[illegible]

604.1

[illegible]

603



Algorithm Size	Percentage of Root
Small (100 m)	10%
Medium (200 m)	20%
Large (300 m)	30%
Very Large (400 m)	40%
Total	100%

Table 2: Far and large channels (S1+S24) with moderate surges.


Algebraic Size	Percentage of Asia
Q100-100000 (1000)	30%
Q100-1000 (100)	12%
Q100-100 (10)	50%
Q100-10 (1)	80%
Q100-1 (0.1)	100%

Material Name	Weight (kg) of 55A
W.G. Plate 55A	2.00
Class I	2.00
Class II	2.00
Class III	2.00

Element Size	Percentage of EDA
BAG (Native EDA)	30%
Team 8	70%
Utopia	50%
Quorum	50%

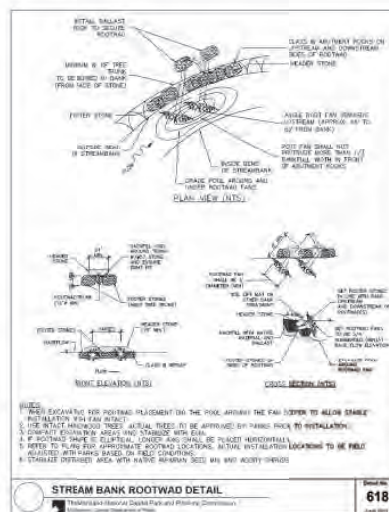
- [illegible]

 **WALLACE  
MONTGOMERY**  
ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS  
10150 York Road, Suite 200  
Hunt Valley, Maryland 21030  
410.494.9093 Tel / 410.667.0925 Fax  
[www.2010.wallacemontgomery.com](http://www.2010.wallacemontgomery.com) *A United Subcity Partnership*

	<b>MONTGOMERY COUNTY</b> <b>DEPARTMENT OF TRANSPORTATION</b> <b>100 EDISON PARK DRIVE, 4TH FLOOR</b> <b>GAITHERSBURG, MD 20878</b>		
	<b>RECOMMENDED FOR APPROVAL</b>		
	Chief, Design Section APPROVED	_____ Date	
	Chief, Division of Engineering Services	_____ Date	
Designed by : L.E.W.		Drawn by : L.E.W.	Checked by : C.V.M.

PLAN SHEET SR-04  
STREAM RESTORATION DETAILS  
MD 355 - CLARKSBURG  
SHARED USE PATH

SCALE N.T.S.	08/
Project No. : C.I.P. PR. # 501744	SHEET 18 of 88



- [illegible]

- [illegible]

REINFORCING BARS  
CONCRETE  
CCM MATTING  
SLOPED ROOF  
HORIZONTAL BASE  
REINFORCING BARS  
CONCRETE  
CCM MATTING  
SLOPED ROOF  
HORIZONTAL BASE  
REINFORCING BARS  
CONCRETE  
CCM MATTING  
SLOPED ROOF  
HORIZONTAL BASE

1. PROVIDE CORROSION RESISTANT TYPE OF SLAB AND WALL, BASED ON AREA OF CORROSION RESISTANT.
2. SLOPED ROOF OF SLOPED ROOF OF 10% AND STAIR OF 12% AND THE OTHER WALL, SLOPED ROOF CORROSION RESISTANT.
3. PROVIDE REINFORCING BARS OF 10mm AND 12mm AND STAIR OF 12% AND THE OTHER WALL, SLOPED ROOF CORROSION RESISTANT.
4. SLOPED ROOF CORROSION RESISTANT TYPE OF SLAB AND WALL, BASED ON AREA OF CORROSION RESISTANT.
5. PROVIDE REINFORCING BARS OF 10mm AND 12mm AND STAIR OF 12% AND THE OTHER WALL, SLOPED ROOF CORROSION RESISTANT.
6. PROVIDE REINFORCING BARS OF 10mm AND 12mm AND STAIR OF 12% AND THE OTHER WALL, SLOPED ROOF CORROSION RESISTANT.
7. PROVIDE REINFORCING BARS OF 10mm AND 12mm AND STAIR OF 12% AND THE OTHER WALL, SLOPED ROOF CORROSION RESISTANT.
8. PROVIDE REINFORCING BARS OF 10mm AND 12mm AND STAIR OF 12% AND THE OTHER WALL, SLOPED ROOF CORROSION RESISTANT.
9. PROVIDE REINFORCING BARS OF 10mm AND 12mm AND STAIR OF 12% AND THE OTHER WALL, SLOPED ROOF CORROSION RESISTANT.
10. PROVIDE REINFORCING BARS OF 10mm AND 12mm AND STAIR OF 12% AND THE OTHER WALL, SLOPED ROOF CORROSION RESISTANT.

REINFORCING BARS  
CONCRETE  
CCM MATTING  
SLOPED ROOF  
HORIZONTAL BASE  
REINFORCING BARS  
CONCRETE  
CCM MATTING  
SLOPED ROOF  
HORIZONTAL BASE  
REINFORCING BARS  
CONCRETE  
CCM MATTING  
SLOPED ROOF  
HORIZONTAL BASE

**EROSION CONTROL MATTING (ECM) DETAIL**

© The American Professional Council on Planning and Community Development

623

MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:				NOTE: MGDPS APPROVAL DOES NOT REGULATE THE NEED FOR A MGDPS ACCESS PERMIT.	
Stormwater Management:		Sediment Control Technical Requirements:		Administrative Requirements:	
				Reviewed Date:	
				SEDIMENT CONTROL PERMIT NO.	
Reviewed	Date	Reviewed	Date		
Approved	Date	Approved	Date		
SM File #				MGDPS APPROVAL OF THIS PLAN WILL EXPIRE TWO YEARS FROM THE DATE OF APPROVAL IF THE PROJECT HAS NOT STARTED.	

DPS approval of a sediment control or stormwater management plan is for demonstrated compliance with minimum environmental runoff treatment standards and does not create or imply any right to divert or concentrate runoff onto any adjacent property without that property owner's permission. It does not relieve the design engineer or other responsible person of professional liability or ethical responsibility for the work.

DPS approval of a sediment control or stormwater management plan is for demonstrated compliance with minimum environmental runoff treatment standards and does not create or imply any right to divert or concentrate runoff onto any adjacent property without that property owner's permission. It does not relieve the design engineer or other responsible person of professional liability or ethical responsibility for the adequacy of the decisions shown as it affects public or private interests.

 MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

PLAN SHEET SR-05  
STREAM RESTORATION DETAILS  
MD 355 - CLARKSBURG  
SHARED USE PATH

SCALE N.T.S. 08/202

RECOMMENDED FOR APPROVAL		
Chief, Design Section		Date
APPROVED		
Chief, Division of Engineering Services		Date
Designed by: I.F.W.	Drawn by: I.F.W.	Checked by: C.V.

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

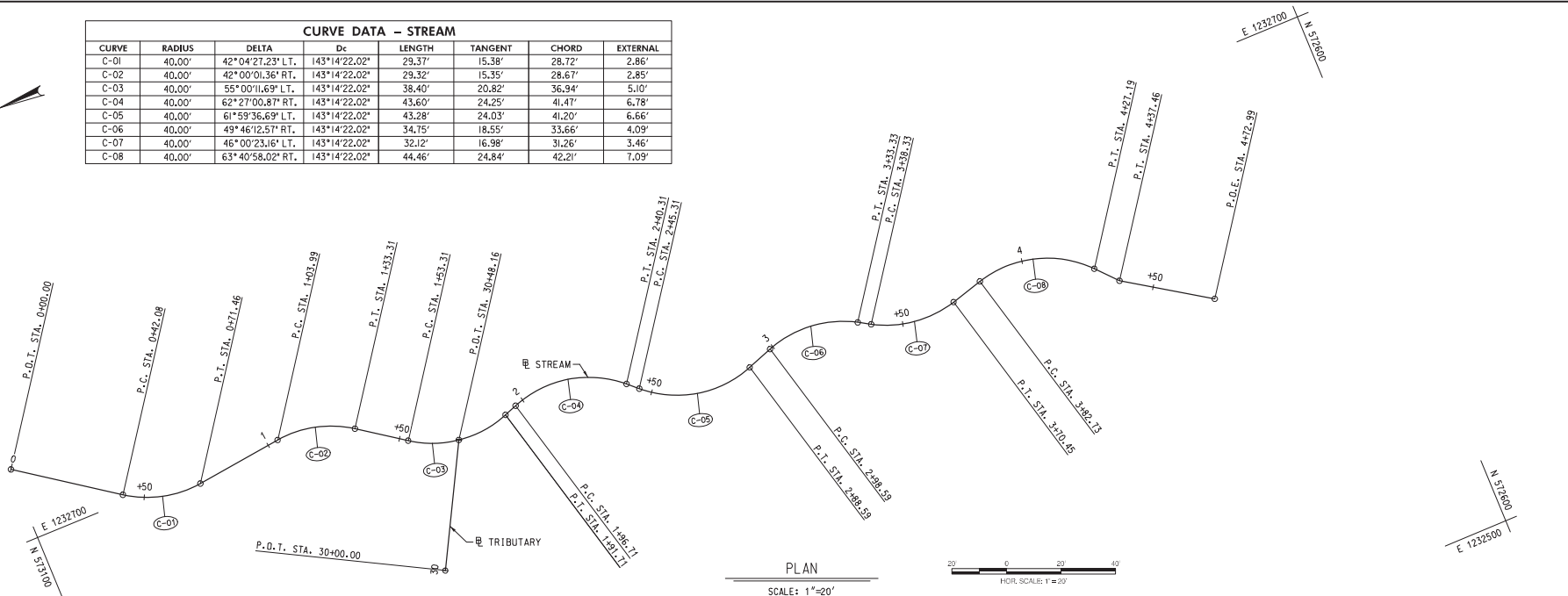
10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Designed by: J.F.W. Drawn by: J.F.W. Checked by: G.V.

Project No. : C.I.P. PR. # 501744 SHEET 19 of 88



CURVE DATA - STREAM							
CURVE	RADIUS	DELTA	Dc	LENGTH	TANGENT	CHORD	EXTERNAL
C-01	40.00'	42°04'27.23" L.T.	143°14'22.02"	29.37'	15.38'	28.72'	2.86'
C-02	40.00'	42°00'01.36" R.T.	143°14'22.02"	29.32'	15.35'	28.67'	2.85'
C-03	40.00'	55°00'11.69" L.T.	143°14'22.02"	38.40'	20.82'	36.94'	5.10'
C-04	40.00'	62°27'00.87" R.T.	143°14'22.02"	43.60'	24.25'	41.47'	6.78'
C-05	40.00'	61°59'36.69" L.T.	143°14'22.02"	43.28'	24.03'	41.20'	6.66'
C-06	40.00'	49°46'12.57" R.T.	143°14'22.02"	34.75'	18.55'	33.66'	4.09'
C-07	40.00'	46°00'23.16" L.T.	143°14'22.02"	32.12'	16.98'	31.26'	3.46'
C-08	40.00'	63°40'58.02" R.T.	143°14'22.02"	44.46'	24.84'	42.21'	7.09'



PLAN

SCALE: 1"=20'



☒ OF CONSTRUCTION STREAM				
POINT DESCR.	STATION	COORDINATES		BEARING
		NORTH	EAST	
P.O.B.	0+00.00	573,099.5030	1,232,726.8023	S 35°11'17.76" W
P.C.	0+42.08	573,065.1107	1,232,702.5517	
P.I.	0+57.17	573,052.5376	1,232,693.6862	
P.T.	0+71.46	573,037.2643	1,232,695.5307	
P.C.	1+03.99	573,004.9690	1,232,699.4309	S 06°53'09.47" E
P.I.	1+19.34	572,989.7250	1,232,701.2718	
P.T.	1+33.31	572,977.1648	1,232,692.4396	
P.C.	1+53.31	572,960.8047	1,232,680.9354	
P.I.	1+74.13	572,943.7704	1,232,668.9571	S 19°53'19.79" E
P.T.	1+91.71	572,924.1884	1,232,676.0414	
P.C.	1+96.71	572,919.4866	1,232,677.7424	
P.I.	2+20.96	572,896.6841	1,232,685.9917	
P.T.	2+40.31	572,878.8236	1,232,669.5903	S 42°33'41.08" W
P.C.	2+45.31	572,875.1408	1,232,666.2084	
P.I.	2+69.34	572,857.4404	1,232,649.9541	
P.T.	2+88.59	572,834.7780	1,232,657.9491	
P.C.	2+98.59	572,825.3476	1,232,661.2760	S 19°25'55.60" E
P.I.	3+17.14	572,807.8499	1,232,667.4489	
P.T.	3+33.33	572,791.8360	1,232,658.0769	
P.C.	3+38.33	572,787.5207	1,232,655.5514	
P.I.	3+55.31	572,772.8645	1,232,646.9740	S 15°40'06.19" E
P.T.	3+70.45	572,756.5139	1,232,651.5602	
P.C.	3+82.73	572,744.6858	1,232,654.8779	
P.I.	4+07.58	572,720.7678	1,232,661.5867	
P.T.	4+27.19	572,704.1506	1,232,643.1220	S 48°00'51.83" W
P.I.	4+37.46	572,697.2803	1,232,635.4880	
P.O.T.	4+72.99	572,667.5362	1,232,616.0664	

☒ OF CONSTRUCTION TRIBUTARY				
POINT DESCR.	STATION	COORDINATES		BEARING
		NORTH	EAST	
P.O.T.	30+00.00	572,966.4217	1,232,631.6960	S 61°37'46.28" E
P.O.T.	30+48.16	572,943.5385	1,232,674.0699	

MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:			NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED FOR A MCDPS ACCESS PERMIT.
Stormwater Management:	Sediment Control Technical Requirements:	Administrative Requirements:	
Reviewed: _____ Date: _____	Reviewed: _____ Date: _____	Reviewed: _____ Date: _____	
Approved: _____ Date: _____	Approved: _____ Date: _____	SEDIMENT CONTROL PERMIT NO. _____	
SM FILE # _____			

DPS approval of a sediment control or stormwater management plan is for demonstrated compliance with minimum environmental runoff treatment standards and does not create or imply any right to divert or concentrate runoff onto any adjacent property without the property owner's permission. It does not relieve the design engineer or other responsible person of professional liability or ethical responsibility for the adequacy of the drainage design as it affects upland or downland properties.



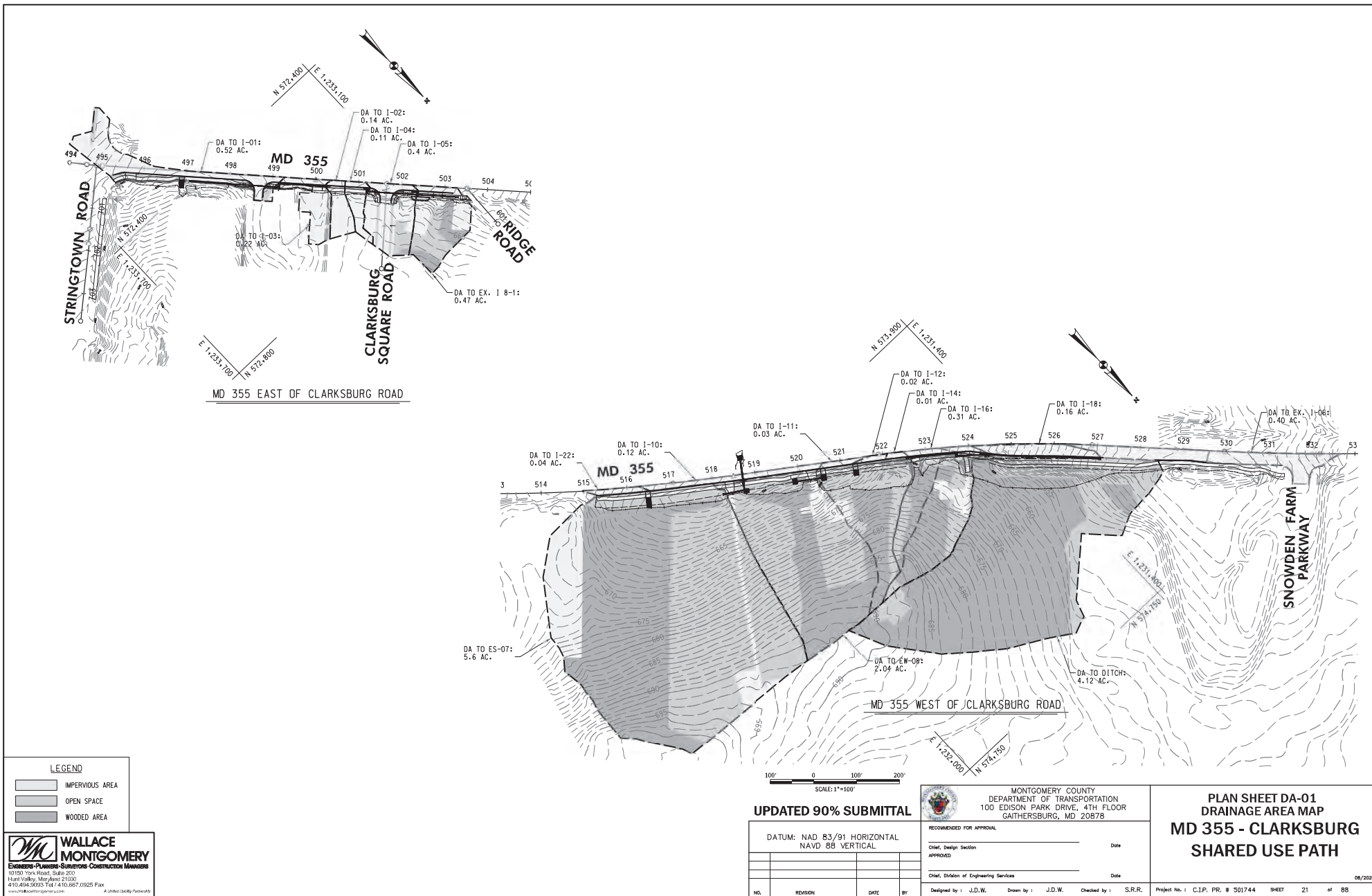
UPDATED 90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL			
NO.	REVISION	DATE	BY

RECOMMENDED FOR APPROVAL	
CHM, Design Section	Date
APPROVED	
CHM, Division of Engineering Services	Date
Designed by: L.E.W.	Drawn by: L.E.W.
Checked by: C.V.M.	

PLAN SHEET SR-06 STREAM RESTORATION GEOM. LAYOUT MD 355 - CLARKSBURG SHARED USE PATH	
SCALE: 1"=20'	08/2020
Project No.: C.I.P. PR. # 301744	SHEET 20 of 88

FILE: \\P:\ACAD\21765\3.0010\Highway\Code-Drainage\SR-06-MD355.dgn



**WALLACE MONTGOMERY**  
ENGINEERING-PLANNING-SURVEYING-CONSTRUCTION-MANAGEMENT  
10150 York Road, Suite 200  
Hunt Valley, Maryland 21030  
410.484.9600 TOLL FREE 1-800-567-0925 FAX  
www.wallacemontgomery.com

# **UPDATED 90% SUBMITTAL**

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL		Date
CHM, Design Section		
APPROVED		
CHM, Division of Engineering Services		Date
Designed by: J.D.W.	Drawn by: J.D.W.	Checked by: S.R.R.

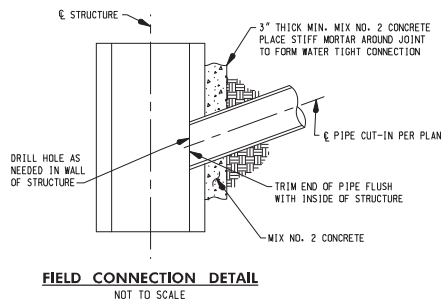
Project No.: C.I.P. PR. # 301744	SHEET 21 of 88
----------------------------------	----------------

FILE: R:\PROJECTS\3.0010\Highway\Code-Drainage\DA-P001\_MD355.dgn

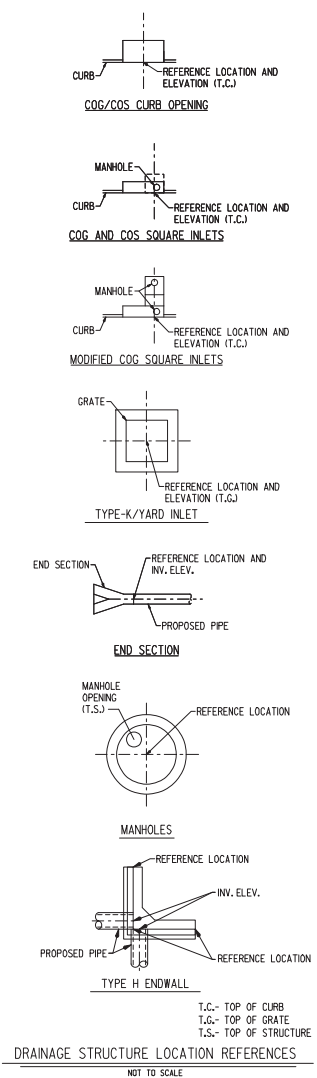
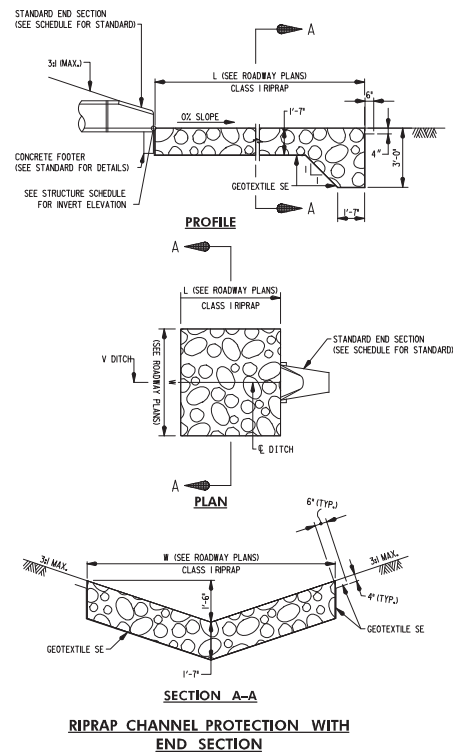
STRUCTURE SCHEDULE							
PLAN SHEET	NUMBER	STATION	OFFSET	TYPE	ELEVATION		VERTICAL DEPTH
					TOP	INV.	
PS-01	I-01	496+88.53	13.00' RT.	10' COG OPENING	657.27	N/A	N/A
PS-02	I-02	500+25.07	13.00' RT.	STANDARD 10' COG INLET	662.79	656.62	0.00
PS-02	I-03	499+15.20	13.00' RT.	STANDARD 15' COG INLET	660.41	654.10	0.14
PS-02	I-04	501+20.27	13.00' RT.	MODIFIED 10' COG INLET *	663.40	657.40	0.00
PS-03	I-05	502+37.34	13.00' RT.	MODIFIED 15' COG INLET *	661.55	655.55	0.00
PS-04	I-22	516+47.01	13.00' RT.	10' COG OPENING	658.10	N/A	N/A
PS-04	I-10	518+69.97	13.00' RT.	MODIFIED 15' COG INLET *	653.22	647.09	0.00
PS-05	I-11	520+57.00	13.00' RT.	10' COG OPENING	655.56	N/A	N/A
PS-05	I-12	521+33.00	13.00' RT.	10' COG OPENING	657.22	N/A	N/A
PS-05	I-14	522+55.72	13.00' RT.	STANDARD 5' COG INLET	658.25	652.08	0.00
PS-06	I-16	523+70.69	13.00' RT.	MODIFIED 15' COG INLET *	653.80	647.63	0.00
PS-06	I-17	524+44.68	20.27' RT.	STANDARD 20' COG INLET	649.51	643.33	0.00
PS-06	I-18	527+07.54	28.50' RT.	STANDARD 20' COG INLET	633.64	628.26	0.00
PS-04	ES-01	518+69.97	26.50' LT.	30" STANDARD CONCRETE END SECTION ROUND	N/A	646.03	N/A
PS-04	ES-07	518+25.62	40.56' RT.	24" STANDARD CONCRETE END SECTION ROUND	N/A	650.83	N/A
PS-05	ES-13	520+43.81	34.79' RT.	18" STANDARD CONCRETE END SECTION ROUND	N/A	653.64	N/A
PS-05	ES-14	520+00.31	34.77' RT.	18" STANDARD CONCRETE END SECTION ROUND	N/A	652.86	N/A
PS-04	EW-08	518+68.96 518+68.96 518+75.47	36.74' RT. 43.24' RT. 36.72' RT.	STANDARD TYPE H ENDWALL FOR 24 INCH PIPE	N/A	650.36	N/A
PS-02	MH-02	499+14.47	23.22' RT.	48" SQUARE STANDARD SHALLOW MANHOLE	660.49	653.92	1.15

\* NOTE: THE CONTRACTOR MUST SUBMIT THE ASSOCIATED SHOP DRAWINGS (FOR REVIEW AND APPROVAL) TO MR. FRANK BROWN (FBROWN1@MDOT.MARYLAND.GOV) OF MDOT SHA CRD-HIGHWAY HYDRAULICS DIVISION.

PIPE SCHEDULE									
PLAN SHEET	STRUCTURE FROM	STRUCTURE TO	SIZE	UPSTREAM INV.	DOWNSTREAM INV.	TYPE	LENGTH	COMMENT	
PS-01 & 02	MH-02	EX. MH-01	18"	651.60	648.76	RCP CLASS IV	209'		
PS-02	I-02	I-03	15"	652.97	652.02	RCP CLASS IV	106'		
PS-02	I-03	MH-02	18"	651.77	651.70	RCP CLASS IV	4'		
PS-02 & 03	I-04	I-05	18"	657.40	655.65	RCP CLASS IV	113'		
PS-03	I-05	EX. I 8-1	18"	655.55	651.99	RCP CLASS IV	94'	TIE-IN TO INLET CONSTRUCTED UNDER PROJECT NO. 508000	
PS-04	ES-07	EW-08	24"	650.83	650.61	RCP CLASS IV	44'		
PS-04	EW-08	I-10	24"	650.36	649.70	RCP CLASS IV	14'		
PS-04	I-10	ES-01	30"	647.09	646.03	RCP CLASS IV	47'		
PS-05	ES-13	ES-14	18"	653.75	652.75	RCP CLASS IV	44'		
PS-05 & 06	I-14	I-16	18"	652.08	647.73	RCP CLASS IV	111'		
PS-06	I-16	I-17	18"	647.63	643.43	RCP CLASS IV	70'		
PS-06	I-17	I-18	18"	643.33	628.43	RCP CLASS IV	257'		



RIPRAP OUTFALL SCHEDULE										
STRUCTURE ID	(FT)	(FT)	(IN)	(FT)	CLASS	TYPE	QTY (SY)	CUTOFF WALL (LF)	Q10 (FPS)	V10 (FPS)
ES-01	10.0	9.0	19	1.50	CLASS I	RCP III	10	9.0	17.9	9.0



# UPDATED 90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY



RECOMMENDED FOR APPROVAL

CHM, Design Section

APPROVED

Chief, Division of Engineering Services

Designed by: J.D.W. Drawn by: J.D.W. Checked by: S.R.R.

Project No.: C.I.P. PR. # 501744 SHEET 22 of 88

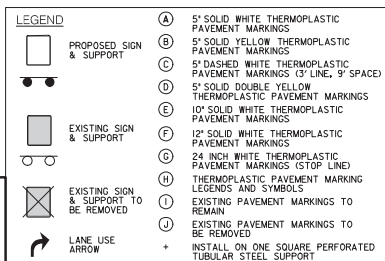
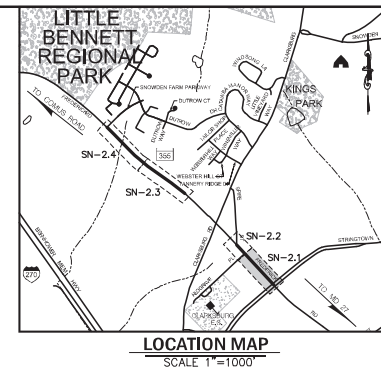
## PLAN SHEET DD-01 DRAINAGE SCHEDULE & DETAILS MD 355 - CLARKSBURG SHARED USE PATH

SCALE: N.T.S.

08/2020



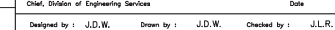




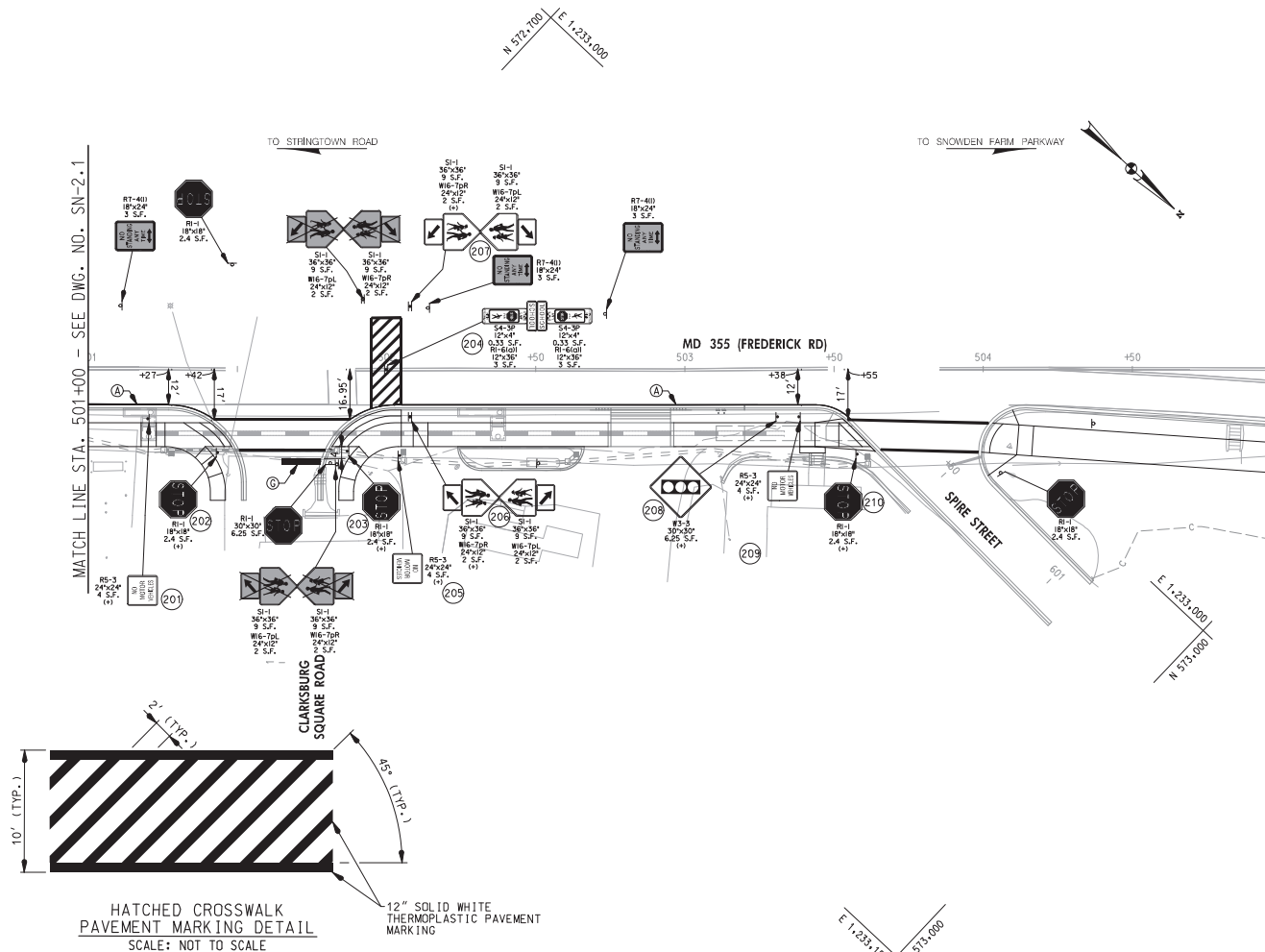
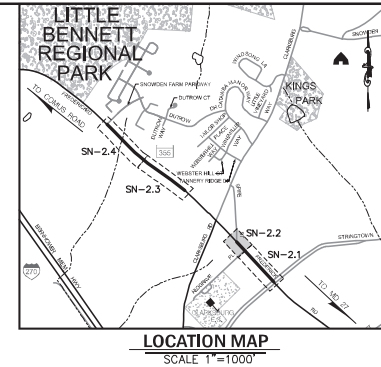
APPROVALS	REVISIONS
TEAM LEADER	
ASSISTANT CHIEF	
CHIEF	
CHIEF	
CHIEF	

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY



8/2020



LEGEND	
	(A) 5' SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
	(B) 5' SOLID YELLOW THERMOPLASTIC PAVEMENT MARKINGS
	(C) 5' DASHED WHITE THERMOPLASTIC PAVEMENT MARKINGS (3' LINE, 9' SPACE)
	(D) 5' SOLID DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKINGS
	(E) 10' SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
	(F) 12' SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
	(G) 24 INCH WHITE THERMOPLASTIC PAVEMENT MARKINGS (STOP LINE)
	(H) THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS
	(I) EXISTING PAVEMENT MARKINGS TO REMAIN
	(J) EXISTING PAVEMENT MARKINGS TO BE REMOVED
	+ INSTALL ON ONE SQUARE PERFORATED TUBULAR STEEL SUPPORT
	LANE USE ARROW

APPROVALS		REVISIONS	
DESIGNER			
CHECKER			
IN CHARGE			
PROJECT MANAGER			

### UPDATED 90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO. REVISION DATE BY

**MONTGOMERY COUNTY**  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

CHIEF, Design Section

APPROVED

CHIEF, Division of Engineering Services

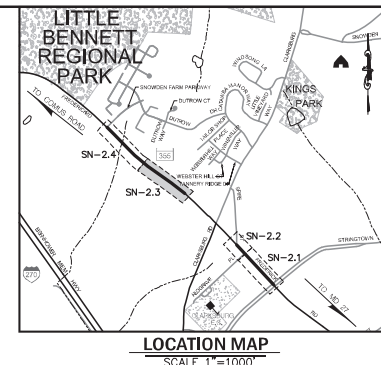
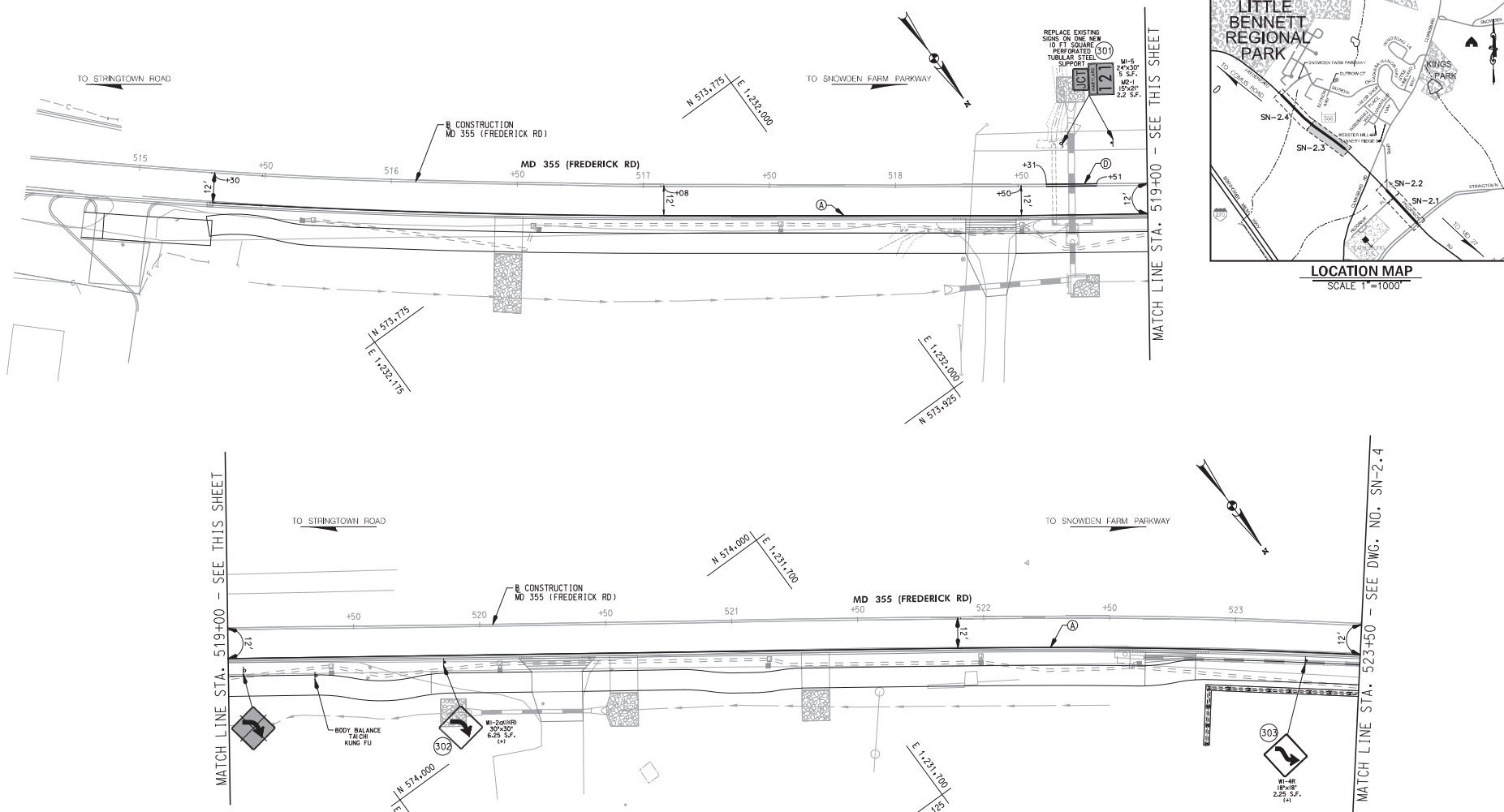
Designed by: J.D.W. Drawn by: J.D.W. Checked by: J.L.R.

**PLAN SHEET SN-2.2**  
**SIGNING & PAVEMENT MARKING PLANS**  
**MD 355 - CLARKSBURG**  
**SHARED USE PATH**  
**STA. 501+00 TO STA. 505+00**

Project No.: C.I.P. PR. # S01744 SHEET 50 of 88







- LEGEND**
- (A) 5' SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
  - (B) 5' SOLID YELLOW THERMOPLASTIC PAVEMENT MARKINGS
  - (C) 5' DASHED WHITE THERMOPLASTIC PAVEMENT MARKINGS (3' LINE, 9' SPACE)
  - (D) 5' SOLID DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKINGS
  - (E) 10' SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
  - (F) 12' SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
  - (G) 24 INCH WHITE THERMOPLASTIC PAVEMENT MARKINGS (STOP LINE)
  - (H) THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS
  - (I) EXISTING PAVEMENT MARKINGS TO REMAIN
  - (J) EXISTING PAVEMENT MARKINGS TO BE REMOVED
  - + INSTALL ON ONE SQUARE PERFORATED TUBULAR STEEL SUPPORT
- PROPOSED SIGN & SUPPORT  
 EXISTING SIGN & SUPPORT  
 EXISTING SIGN & SUPPORT TO BE REMOVED  
 LANE USE ARROW



APPROVALS		REVISIONS	
DESIGNER			
CHECKER			
IN CHARGE			
PROJECT CHIEF			
TEAM LEADER			

**UPDATED 90% SUBMITTAL**

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

**MONTGOMERY COUNTY**  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

CHM, Design Section

APPROVED

CHM, Division of Engineering Services

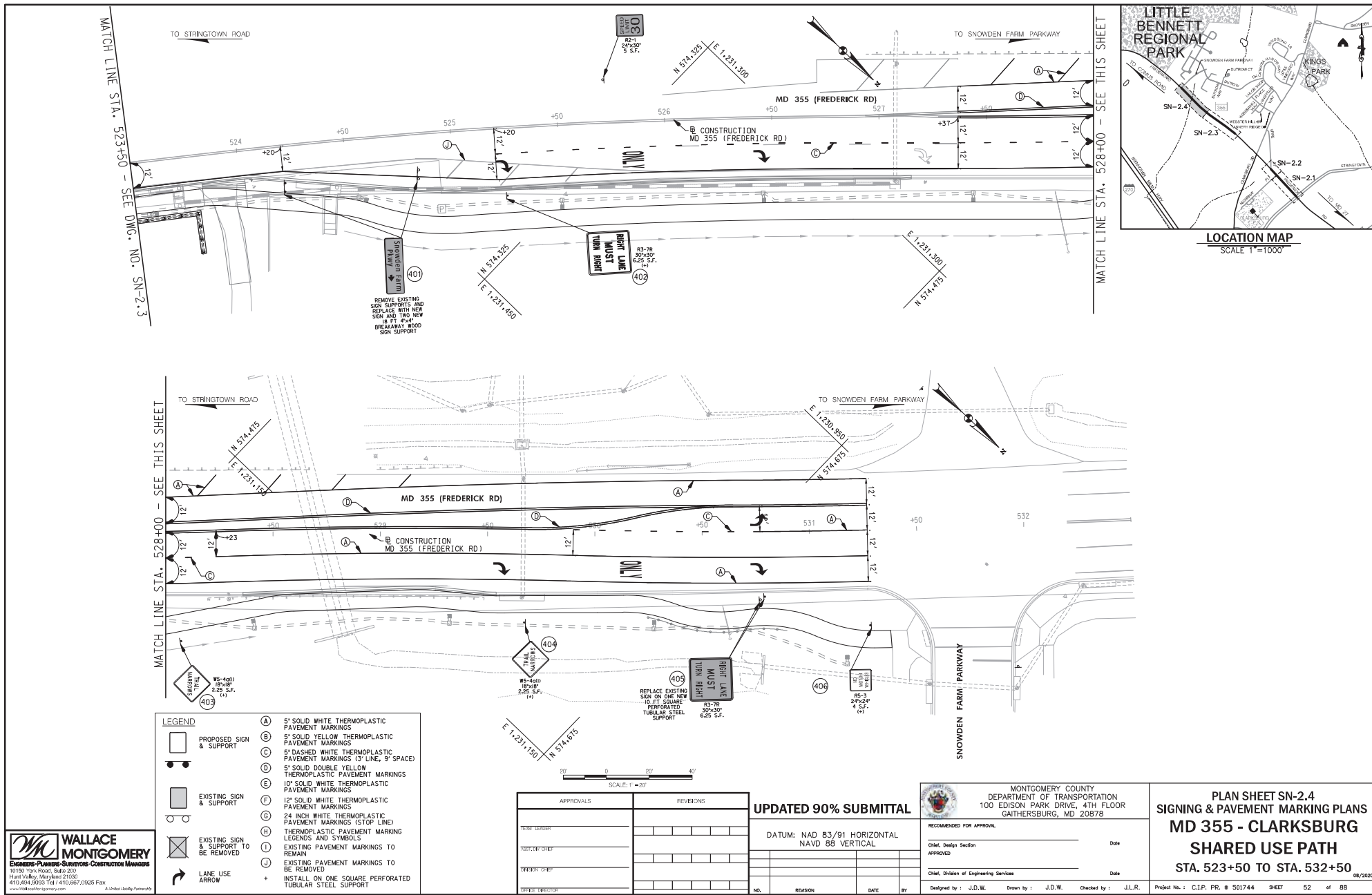
Designed by: J.D.W. Drawn by: J.D.W. Checked by: J.L.R.

**PLAN SHEET SN-2.3**  
**SIGNING & PAVEMENT MARKING PLANS**  
**MD 355 - CLARKSBURG**  
**SHARED USE PATH**  
**STA. 514+50 TO STA. 523+50**

Project No.: C.I.P. PR. # S01744 SHEET 51 of 88

08/2020





SIGN NO.	REMARKS	CODE NUMBERS*												
		1	2	3	4	5	6	7	8	9	10	11	12	13
101	D11-1 (18"x24") 'BIKE ROUTE, RS-3 (24"x24") 'NO MOTOR VEHICLES'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	7	1	1									
102	RELOCATE R2-1 (24"x30") 'SPEED LIMIT 30'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT		1	1	5								
103	RELOCATE M3-1 (12"x18") 'NORTH, M1-5 (24"x30") 'MARYLAND 355'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT		1	1	6.5								
104	RELOCATE MONTGOMERY COUNTY CORRECTIONAL FACILITY SIGN	ONE SQ PERFORATED TUBULAR STEEL SUPPORT		1	1	2								
105	R7-4(2) (24"x30") 'NO STOPPING ANY TIME'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	5	1	1									
106	RELOCATE W16-9 (24"x12") 'AHEAD, S1-1 (36"x36") SCHOOL	ONE SQ PERFORATED TUBULAR STEEL SUPPORT		1	1	5								
	PAVEMENT MARKINGS						503		61		13			
201	D11-1 (18"x24") 'BIKE ROUTE, RS-3 (24"x24") 'NO MOTOR VEHICLES'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	7	1	1									
202	R1-1 (18"x18") 'STOP'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	2.25	1	1									
203	R1-1 (18"x18") 'STOP'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	2.25	1	1									
204	S4-3P (12"x4") 'SCHOOL' (2), R1-6(a)1 (12"x36") IN-STREET PEDESTRIAN CROSSINGS (2)		6.67											
205	D11-1 (18"x24") 'BIKE ROUTE, RS-3 (24"x24") 'NO MOTOR VEHICLES'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	7	1	1									
206	S1-1 (36"x36") SCHOOL (2), W16-7pR (24"x12") ARROW PLAQUE, W16-7pL (24"x12") ARROW PLAQUE	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	22	1	1									
207	S1-1 (36"x36") SCHOOL (2), W16-7pR (24"x12") ARROW PLAQUE, W16-7pL (24"x12") ARROW PLAQUE	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	22	1	1									
208	W3-3 (30"x30") SIGNAL AHEAD	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	6.25	1	1									
209	D11-1 (18"x24") 'BIKE ROUTE, RS-3 (24"x24") 'NO MOTOR VEHICLES'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	7	1	1									
210	R1-1 (18"x18") 'STOP'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	2.25	1	1									
	PAVEMENT MARKINGS						213		154					
301	RELOCATE M2-1 (15"x21") 'JCT, M1-5 (24"x30"), 'MARYLAND 121'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT		1	1	7.19								
302	W1-2a(1)(R) (30"x30") CURVE	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	6.25	1	1									
303	W1-4R (18"x18") REVERSE CURVE	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	2.25	1	1									
	PAVEMENT MARKINGS						820		40					
401	RELOCATE EXISTING SIGN	TWO 4"x4" WOOD SUPPORT												36
402	R3-7R (30"x30") 'RIGHT LANE MUST TURN RIGHT'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	6.25	1	1									
403	W5-4a(1) (18"x18") 'TRAIL NARROWS'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	2.25	1	1									
404	W5-4a(1) (18"x18") 'TRAIL NARROWS'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	2.25	1	1									
405	R3-7R (30"x30") 'RIGHT LANE MUST TURN RIGHT'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	6.25	1	1									
406	D11-1 (18"x24") 'BIKE ROUTE, RS-3 (24"x24") 'NO MOTOR VEHICLES'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	7	1	1									
	PAVEMENT MARKINGS						1384					126		
	SUBTOTAL THIS SHEET		129.17	23	23	25.69	2920	40	215		13	126		

* CODE NUMBER DESCRIPTION & UNIT		
CODE NUMBERS	DESCRIPTION	UNIT
1	SHEET ALUMINUM SIGNS	SF
2	SQUARE PERFORATED TUBULAR STEEL SIGN POSTS	EA
3	SQUARE TUBULAR STEEL ANCHOR BASES	EA
4	RELOCATE EXISTING GROUND MOUNTED SIGNS	SF
5	REMOVE EXISTING GROUND MOUNTED SIGNS AND SUPPORTS	SF
6	5 INCH WHITE THERMOPLASTIC PAVEMENT MARKING LINES	LF
7	5 INCH YELLOW THERMOPLASTIC PAVEMENT MARKING LINES	LF
8	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES	LF
9	16 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES	LF
10	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES	LF
11	WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS	SF
12	BIKE LANE PREFORMED THERMOPLASTIC PAVEMENT MARKING WITH ARROW	SF
13	4"x4" WOOD SUPPORT	LF



REVISIONS			
NO.	REVISION	DATE	BY

### UPDATED 90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL



MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

CHM, Design Section  
APPROVED

Date

CHM, Division of Engineering Services

Date

Designed by : J.D.W. Drawn by : J.D.W. Checked by : J.L.R.

**PLAN SHEET SN-11.1**  
**SIGNING & PAVEMENT MARKING PLANS**  
**MD 355 - CLARKSBURG**  
**SHARED USE PATH**  
**INDEX OF QUANTITIES**

Project No.: C.I.P. PR. # S01744 SHEET 53 of 88

08/2020

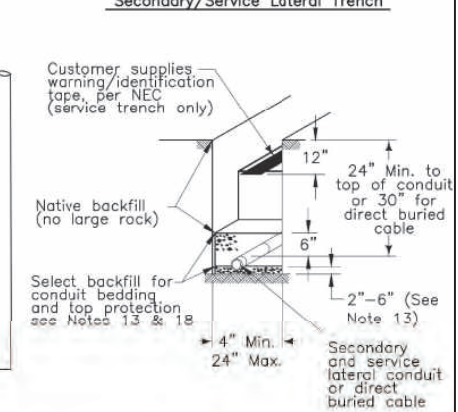
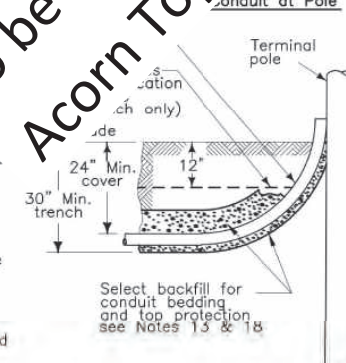
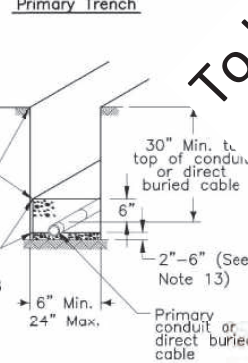
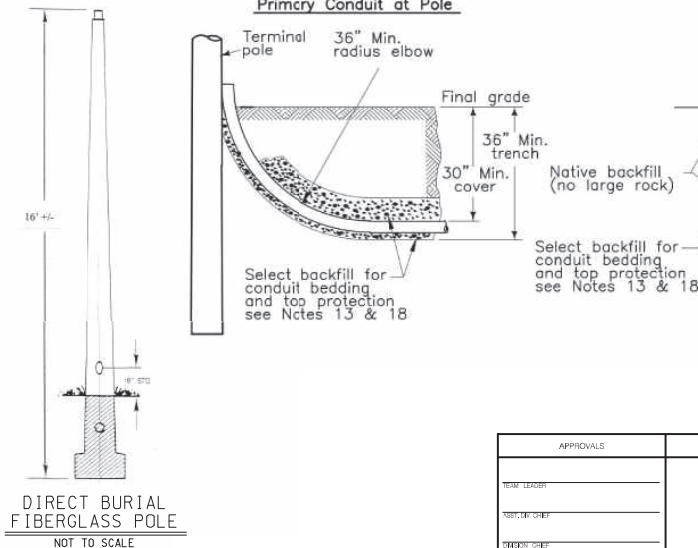
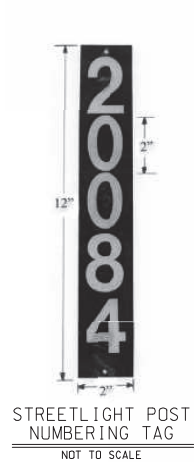
FILE: R:\PROJECTS\3.0010\Highway\Code\p0N-1101\_M0355.dgn



# POLE SCHEDULE

POLE NUMBER	TYPE OF POLE	POLE OFFSET FROM TRAVEL LANE **	STATION AND OFFSET	LUMINAIRE / WATTAGE	TYPE OF BASE	DRAWING NUMBER
22243	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	6'	495+64, 17' RT	LED/53W	Breakaway	LT-02
22245	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	5'	496+57, 16' RT	LED/53W	Breakaway	LT-02
22247	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	14'	497+43, 26' RT	LED/53W	Breakaway	LT-02
22249	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	5'	498+35, 16' RT	LED/53W	Breakaway	LT-03
22251	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	6'	498+97, 17' RT	LED/53W	Breakaway	LT-03
22253	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	6'	499+90, 17' RT	LED/53W	Breakaway	LT-03
22255	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	6'	500+52, 17' RT	LED/53W	Breakaway	LT-03
22257	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	16'	501+28, 28' RT	LED/53W	Breakaway	LT-03
22259	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	16'	502+06, 28' RT	LED/53W	Breakaway	LT-04
22261	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	17'	502+64, 29' RT	LED/53W	Breakaway	LT-04
22263	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	18'	503+61, 29' RT	LED/53W	Breakaway	LT-04
22265	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	6'	515+65, 17' RT	LED/53W	Breakaway	LT-05
22267	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	6'	516+59, 18' RT	LED/53W	Breakaway	LT-05
22269	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	7'	517+55, 18' RT	LED/53W	Breakaway	LT-05
22271	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	6'	518+50, 18' RT	LED/53W	Breakaway	LT-05
22273	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	7'	519+41, 19' RT	LED/53W	Breakaway	LT-06
22275	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	7'	520+08, 18' RT	LED/53W	Breakaway	LT-06
22277	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	7'	521+14, 18' RT	LED/53W	Breakaway	LT-06
22279	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	7'	521+99, 18' RT	LED/53W	Breakaway	LT-06
22281	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	7'	522+62, 18' RT	LED/53W	Breakaway	LT-06
22283	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	7'	523+59, 18' RT	LED/53W	Breakaway	LT-07
22285	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	6'	524+57, 28' RT	LED/53W	Breakaway	LT-07
22287	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	8'	525+50, 36' RT	LED/53W	Breakaway	LT-07
22289	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	8'	526+45, 35' RT	LED/53W	Breakaway	LT-07
22291	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	10'	527+44, 36' RT	LED/53W	Breakaway	LT-07
22293	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	17'	528+41, 44' RT	LED/53W	Breakaway	LT-08
22295	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	16'	529+32, 43' RT	LED/53W	Breakaway	LT-08
22297	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	15'	530+27, 42' RT	LED/53W	Breakaway	LT-08
22299	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	33'	531+16, 59' RT	LED/53W	Breakaway	LT-08

\*\* - POLE OFFSET MEASURED TO THE CENTER OF THE POLE



**WALLACE MONTGOMERY**  
ENGINEERS-PLANNERS-SURVEYORS  
10150 York Road, Suite 200  
Hunt Valley, Maryland 21030  
410.484.9625 Tel / 410.987.0925 Fax  
www.wallacemontgomery.com

**DIRECT BURIAL FIBERGLASS POLE**  
NOT TO SCALE

APPROVALS	REVISIONS
DESIGNER	
CHECKED	
ENGINEER	
DATE	

## UPDATED 90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

**MONTGOMERY COUNTY**  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section

APPROVED

Chief, Division of Engineering Services

Designed by: J.D.W. Drawn by: J.D.W. Checked by: S.R.R.

**PLAN SHEET LT-01**  
**LIGHTING PLANS**  
**MD 355 - CLARKSBURG**  
**SHARED USE PATH**  
**DETAILS AND SCHEDULES**

Project No.: C.I.P. PR. # 301744 SHEET 54 of 88

68



DRILL HOLES

DRILL HOLES

DRILL HOLES

FORREST CONSERVATION WORKSHEET  
MD355 - CLARKSBURG SPACED USE PATH

AFT TRACT AREA

A. Total tract area	3.58
B. Land dedication area (roads, utility, etc.)	0.00
C. Land dedication for roads or utilities not being constructed by this plan	0.00
D. Area to remain in conventional agricultural production	0.00
E. Other dedication (state by)	0.00
F. Net tract area	3.58

LAND USE CATEGORY (State Types Technical Manual)  
Insert the number "1" under the appropriate land use  
that is only one entry

AKA	MUN	ICA	LCU	M-PU	CH
0	0	0	0	0	0

G. Afforestation Threshold

15%	X F =	0.54
20%	X F =	0.72

H. Afforestation Threshold

15%	X F =	0.54
20%	X F =	0.72

LANDING REQUIREMENTS

L. Existing forest cover	1.18
M. Area of forest above afforestation threshold	0.64
N. Area of forest above conservation threshold	0.48

DRILL HOLE DATA

L. Forest retention above threshold with no mitigation	0.81
M. Clearing permitted without mitigation	0.37

PROPOSED FOREST OF PARKING

A. Total area of forest to be retained	1.18
B. Total area of forest to be retained	0.00

PLANTING REQUIREMENTS

H. Retention of forest above conservation threshold	0.12
I. Retention of forest above conservation threshold	1.43
J. Credit for retention of forest above conservation threshold	0.00
K. Total afforestation required	1.55
L. Total afforestation required	0.00
M. Credit for landscaping may not exceed 20% of total	0.00
N. Total afforestation and preservation required	1.55 *

\*1.55 AC AFFORESTATION REQUIRED  
0.48 AC AFFORESTATION PROVIDED

1.07 AC FOREST BANKING WILL BE PURCHASED

SITE TABULATIONS:

ACREAGE OF TRACT	3.58
ACREAGE OF TRACT REMAINING IN AGRICULTURE:	0
ACREAGE OF ROAD AND UTILITY R/W WHICH WILL NOT BE IMPROVED AS PART OF DEV. APPLICATION:	0
ACREAGE OF EX. FOREST:	1.18
ACREAGE OF TOTAL FOREST RETENTION:	0.00
ACREAGE OF TOTAL FOREST CLEARED:	1.18
LAND USE CATEGORY:	IDA
AFFORESTATION THRESHOLD	0.59
CONSERVATION THRESHOLD	0.77
ACREAGE OF FOREST RETAINED, CLEARED, AND PLANTED WITHIN WETLANDS	0.00/0.07/0.00
ACREAGE OF FOREST RETAINED, CLEARED, AND PLANTED WITHIN 100-YEAR FLOODPLAIN	0.00/0.00/0.00
ACREAGE OF FOREST RETAINED, CLEARED, AND PLANTED WITHIN STREAM BUFFERS	0.00/0.62/0.48
ACREAGE OF FOREST RETAINED, CLEARED, AND PLANTED WITH PRIORITY AREAS	0.00/0.00/0.00
LINEAR EXTENT & AVERAGE WIDTH OF STREAM BUFFER	342' / 200'
TOTAL DBH INCHES OF SPECIMEN TREES REMOVED (OUTSIDE FOREST)	339 X 0.25 = 85 REQUIRED CALIPER INCHES MITIGATION
TOTAL DBH INCHES OF SPECIMEN TREE REMOVED + 3" CALIPER TREES	= TOTAL TREES REQUIRED TO BE PLANTED
29 TOTAL 3" CALIPER TREES REQUIRED TO BE PLANTED	

WALLACE MONTGOMERY

Conservation Planning & Environmental Services

19180 York Road, Suite 200

Rockville, Maryland 20850

410-406-2600 FAX 410-407-0828 Fax

www.wallacemontgomery.com

ALUMINUM LANTERN POSTING

NORTON LAND DESIGN

LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING

5148 DORSEY HALL DRIVE, 2ND FLOOR

BALTIMORE, MD 21242

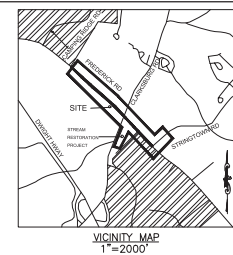
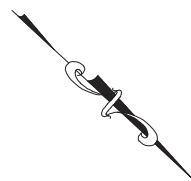
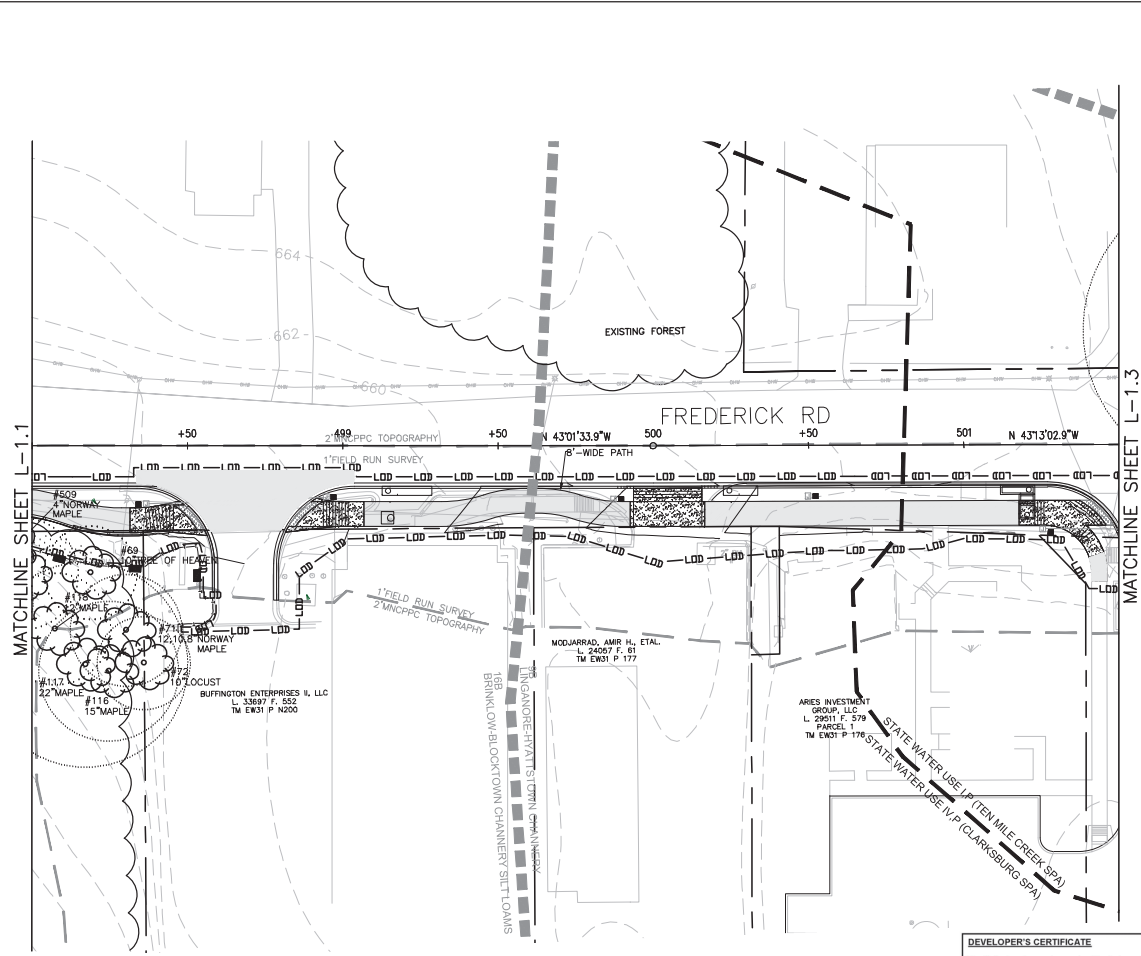
410-443-9420/9189 X101 DC 240-342-2329/101

WWW.NORTONLANDDESIGN.COM

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

WATER CLASS	I, P, IV, P	WATERSHED	ROCK CREEK	MAP SCALE	24031C 01600
TRIBUTARY	ROCK CREEK	WATER BODY	ROCK CREEK	WATER BODY	ROCK CREEK
TAX MAP	EW341, EW121	200' SCALE	24031C 01600	24031C 01600	24031C 01600
SCALE	AS SHOWN	DATE	AUGUST 2019	PROJ. NO.	15-138
SHEET NO.	L-1.1	SHEET NO.	L-1.1	SHEET NO.	L-1.1

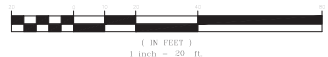




LEGEND

- EXISTING TREE >6" AND <24" DBH AND CRITICAL ROOT ZONE
- EXISTING SIGNIFICANT TREE >24" AND <30" DBH WITH TAG NUMBER
- EXISTING SPECIMEN TREE >30" DBH WITH TAG NUMBER
- FOREST TREELINE
- SCRUB AREA/SCREENING TREES/ NON-FOREST CANOPY
- LIMITS OF DISTURBANCE
- PROPOSED GRADE
- PROPERTY BOUNDARY
- EX. CONTOUR
- EXISTING STREAM
- EASEMENT
- TREE TO BE REMOVED
- TREE PROTECTION FENCE (TEMPORARY)
- TEMPORARY COMBINED ROOT PRUNE TRENCH/TREE PROTECTION FENCE
- TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.C.)
- FOREST CLEARING AREA
- PROPOSED SHARED USE PATH
- PROPOSED LIGHT POLES
- PROPOSED MITIGATION TREE

GRAPHIC SCALE



\*NOTE: TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES, PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE LOD LAYOUT AND/OR INSTALLATION OF E&S MEASURES, MAY BE REQUIRED ALONG THE LINE OF CUT/FILL DECISIONS ON TREE PROTECTION MEASURES MUST BE AGREED UPON BY A M-NOPPC FOREST CONSERVATION INSPECTOR BEFORE INSTALLATION.

**WALLACE MONTGOMERY**  
Landscape Architecture + Environmental Planning  
19189 York Road, Suite 200  
Rockville, Maryland 20850  
410.496.2500 / 410.497.8828 Fax  
www.wallacemontgomery.com

**NORTON LAND DESIGN**  
LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING  
5148 DORSEY HALL DRIVE, 2ND FLOOR  
BALT. 443.542.9199 x101 DC 240.342.2329x101  
www.nortonlanddesign.com

WATER CLASS	I/P/IV,P	WATERSHED	LITTLE SEMECA CREEK	UTMA FLOODPLAIN	MAP PAGE: 1
TRIBUTARY	ROCK CREEK				24031C 01600
TAX MAP	EW341,EW121	200 SHEET	233NW13	ADC MAP	PAGE: 9
SCALE	AS SHOWN	DATE	AUGUST 2019	PROJ. NO.	15-138
				SHEET NO.	L-1.2

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

**DEVELOPER'S CERTIFICATE**  
The Undersigned agrees to execute all the features of the Approved Final Forest Conservation Plan No. \_\_\_\_\_ including, financial bonding, forest planting, maintenance, and all other applicable agreements.

Developer's Name: **MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION**  
Printed Company Name

Contact Person or Owner: **YASAMIN ESMAILI - PROJECT MANAGER**  
Printed Name

Address: **101 MONROE ST. 10TH FLOOR  
ROCKVILLE, MD 20850**

Phone and Email: **240-777-7226  
Yasamin.Esmaili@MontgomeryCountyMD.gov**

Signature: \_\_\_\_\_

CERTIFICATION OF QUALIFIED PROFESSIONAL

I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MNCPPC AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

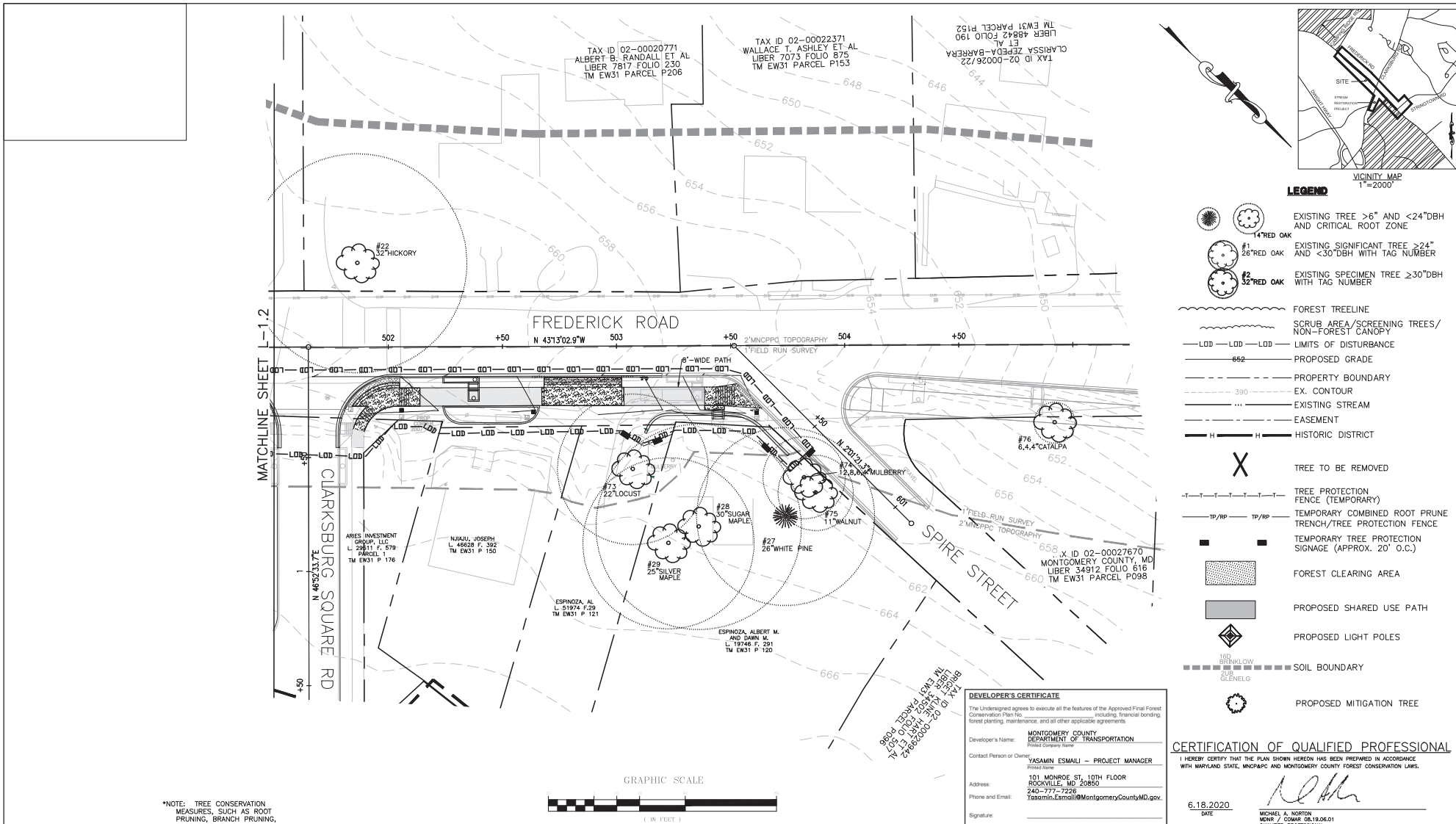
6.18.2020  
DATE

*Michael A. Norton*  
MICHAEL A. NORTON  
MONTGOMERY COUNTY  
QUALIFIED PROFESSIONAL

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

**PLAN SHEET L-1.2**  
**PRELIMINARY FOREST CONSERVATION PLAN**  
**MD 355 - CLARKSBURG**  
**SHARED USE PATH**

Designed by: H.J. Drawn by: H.J. Checked by: M.N. Project No.: C.J.P. PE #507144 SHEET 64 of 85



**LEGEND**

- EXISTING TREE >6" AND <24" DBH AND CRITICAL ROOT ZONE
- EXISTING SIGNIFICANT TREE >24" AND <30" DBH WITH TAG NUMBER
- EXISTING SPECIMEN TREE ≥30" DBH WITH TAG NUMBER
- FOREST TREELINE
- SCRUB AREA/SCREENING TREES/ NON-FOREST CANOPY
- LIMITS OF DISTURBANCE
- PROPOSED GRADE
- PROPERTY BOUNDARY
- EX. CONTOUR
- EXISTING STREAM
- EASEMENT
- HISTORIC DISTRICT
- TREE TO BE REMOVED
- TREE PROTECTION FENCE (TEMPORARY)
- TEMPORARY COMBINED ROOT PRUNE TRENCH/TREE PROTECTION FENCE
- TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.C.)
- FOREST CLEARING AREA
- PROPOSED SHARED USE PATH
- PROPOSED LIGHT POLES
- SOIL BOUNDARY
- PROPOSED MITIGATION TREE

**DEVELOPER'S CERTIFICATE**

The Undersigned agrees to execute all the features of the Approved Final Forest Conservation Plan No. \_\_\_\_\_, including financial bonding, forest planting, maintenance, and all other applicable agreements.

Developer's Name: **MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION**

Contact Person or Owner: **YASAMIN ESMAILI - PROJECT MANAGER**

Address: **101 MONROE ST, 10TH FLOOR ROCKVILLE, MD 20850**

Phone and Email: **240-777-7226 / yasamin.esmaili@montgomerycountymd.gov**

Signature: \_\_\_\_\_

**CERTIFICATION OF QUALIFIED PROFESSIONAL**

I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MNCPPC AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

6.18.2020 DATE

MICHAEL A. NORTON MONT / CMAP 05.18.06.01 QUALIFIED PROFESSIONAL

**\*NOTE:** TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE LDD LAYOUT AND/OR INSTALLATION OF E&S MEASURES, MAY BE REQUIRED ALONG THE LINE OF CUT/FILL. DECISIONS ON TREE PROTECTION MEASURES MUST BE AGREED UPON BY A M-NCPFC FOREST CONSERVATION INSPECTOR BEFORE INSTALLATION.



**WALLACE MONTGOMERY**  
Conservation Planning & Environmental Services  
19180 York Road, Suite 200  
Hunt Valley, Maryland 20830  
410.426.2500 / 410.426.2500 Fax  
www.wallacemontgomery.com

<b>NORTON LAND DESIGN</b> LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING 5148 DORSEY HALL DRIVE, 2ND FLOOR ELICOTT CITY, MD 21042 BALT. 443.542.9199 x101 DC 240.342.2329x101 WWW.NORTONLANDDESIGN.COM			
WATER CLASS	I/P/V/P	WATERSHED	ITMA FLOODPLAIN
TRIBUTARY	ROCK CREEK	LITTLE SENECA CREEK	MAP PAGE: 24031C 0160D
TAX MAP	EW341,EW121	200 SHEET 24031C 0160D	ADC MAP PAGE: 9 CDD: E-3.4
SCALE	AS SHOWN	DATE	AUGUST 2019
PROJ. NO.	15-138	SHEET NO.	L-1.3

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

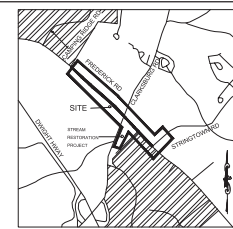
NO.	REVISION	DATE	BY

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

Designed by: H.J. Drawn by: H.J. Checked by: M.N. Project No.: C.J.P. PE #501744 SHEET 65 of 85

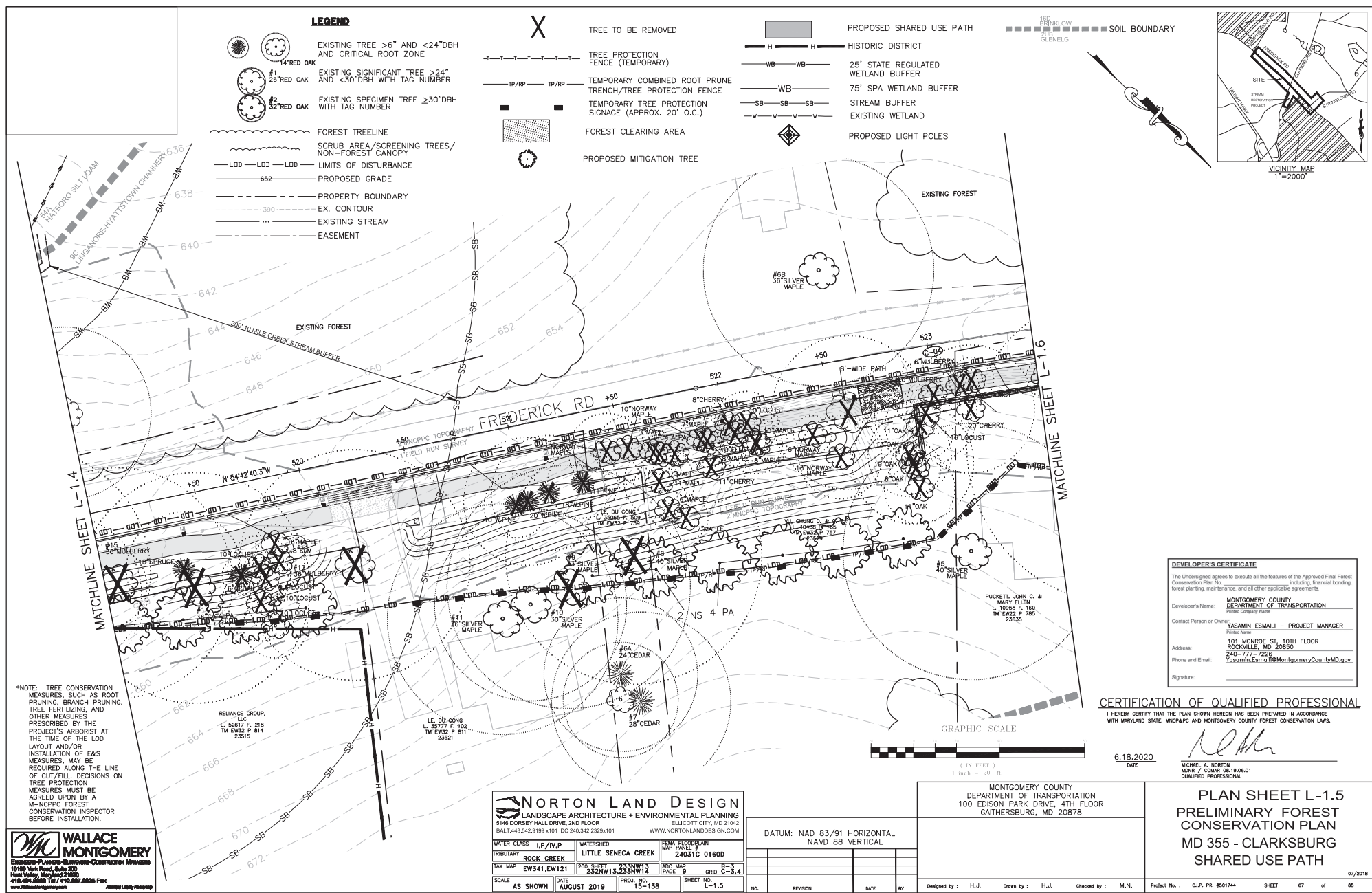
**PLAN SHEET L-1.3**  
**PRELIMINARY FOREST CONSERVATION PLAN**  
**MD 355 - CLARKSBURG**  
**SHARED USE PATH**

07/2018





DRILL HOLES  
DRILL HOLES  
DRILL HOLES

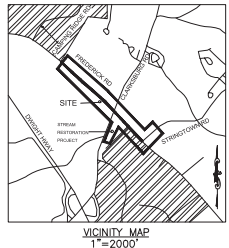


DRILL HOLES

DRILL HOLES

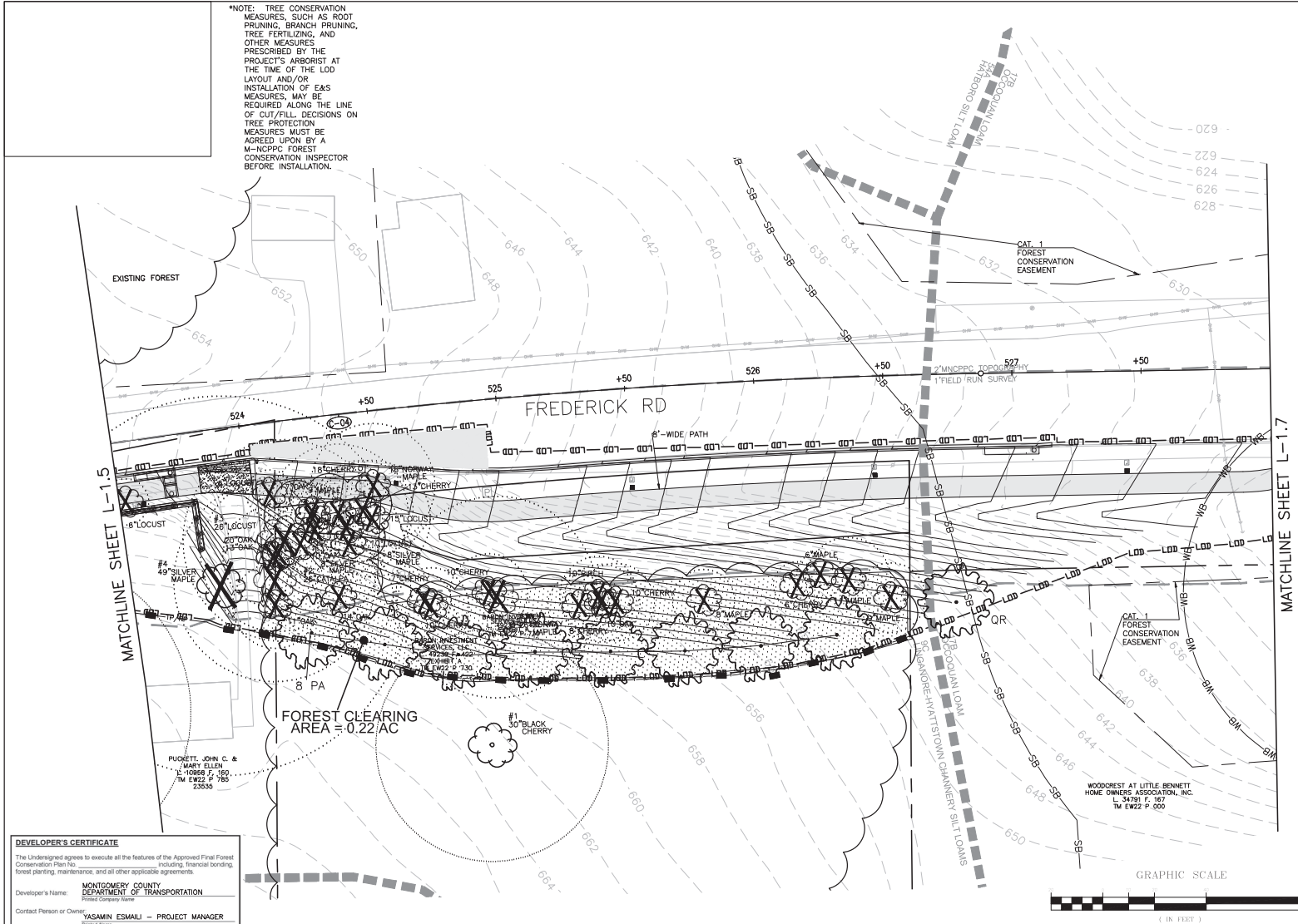
DRILL HOLES

\*NOTE: TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE LOD LAYOUT AND/OR INSTALLATION OF E&S MEASURES, MAY BE REQUIRED ALONG THE LINE OF CUT/FILL. DECISIONS ON TREE PROTECTION MEASURES MUST BE AGREED UPON BY A M-NCPPC FOREST CONSERVATION INSPECTOR BEFORE INSTALLATION.



# LEGEND

- EXISTING TREE >6" AND <24" DBH AND CRITICAL ROOT ZONE
- EXISTING SIGNIFICANT TREE >24" AND <30" DBH WITH TAG NUMBER
- EXISTING SPECIMEN TREE ≥30" DBH WITH TAG NUMBER
- FOREST TREELINE
- SCRUB AREA/SCREENING TREES/ NON-FOREST CANOPY
- LIMITS OF DISTURBANCE
- PROPOSED GRADE
- PROPERTY BOUNDARY
- EX. CONTOUR
- EXISTING STREAM
- EASEMENT
- TREE TO BE REMOVED
- TREE PROTECTION FENCE (TEMPORARY)
- TEMPORARY COMBINED ROOT PRUNE TRENCH/TREE PROTECTION FENCE
- TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.C.)
- FOREST CLEARING AREA
- PROPOSED SHARED USE PATH
- 25' STATE REGULATED WETLAND BUFFER
- 75' SPA WETLAND BUFFER
- STREAM BUFFER
- EXISTING WETLAND
- PROPOSED LIGHT POLES
- SOIL BOUNDARY
- PROPOSED MITIGATION TREE



**DEVELOPER'S CERTIFICATE**

The Undersigned agrees to execute all the features of the Approved Final Forest Conservation Plan No. \_\_\_\_\_ including financial bonding, forest planting, maintenance, and all other applicable agreements.

Developer's Name: **MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION**

Contact Person or Owner: **YASAMIN ESMALI - PROJECT MANAGER**

Address: **101 MONROE ST, 10TH FLOOR  
ROCKVILLE, MD 20850  
240-777-7226  
Yasamin.Esmali@MontgomeryCountyMD.gov**

Signature: \_\_\_\_\_

## CERTIFICATION OF QUALIFIED PROFESSIONAL

I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MNCPPC AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

6.18.2020  
DATE

*Michael A. Norton*  
MICHAEL A. NORTON  
MONTGOMERY COUNTY REGISTERED PROFESSIONAL  
QUALIFIED PROFESSIONAL

**NORTON LAND DESIGN**  
LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING  
5148 DORSEY HALL DRIVE, 2ND FLOOR  
BALT. 443.542.9199 x101 DC 240.342.2329x101  
WWW.NORTONLANDDESIGN.COM

WATER CLASS	I/P/IV,P	WATERSHED	LITTLE SENECA CREEK	UTMA FLOODPLAIN MAP PAGE 1	24031C 01600
TRIBUTARY	ROCK CREEK				
TAX MAP	EW341,EW121	200 SHEET	24031C 01600	ADC MAP	9
SCALE	AS SHOWN	DATE	AUGUST 2019	PROJ. NO.	15-138
		SHEET NO.	L-1.6		

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

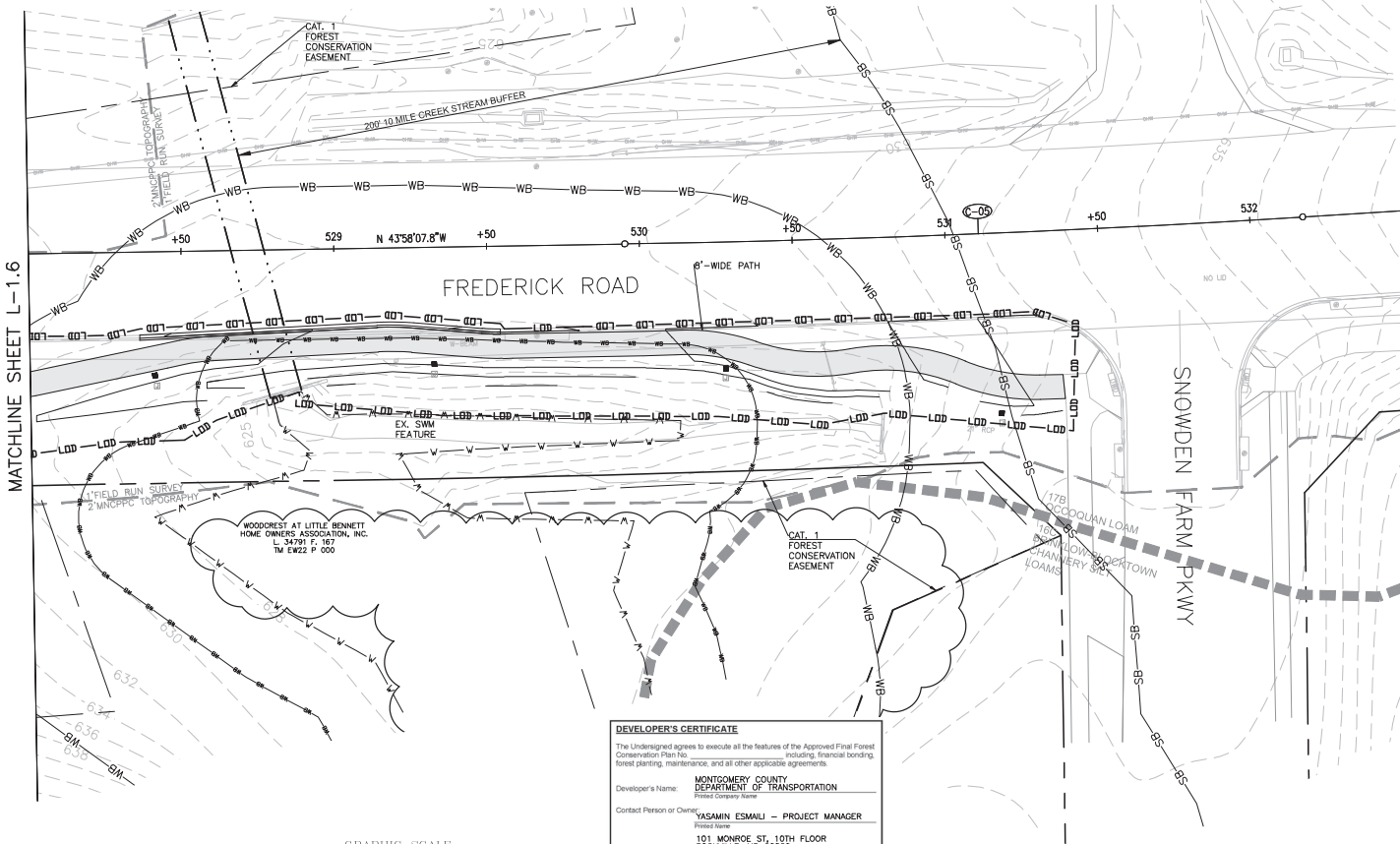
Designed by: H.J. Drawn by: H.J. Checked by: M.N.

**PLAN SHEET L-1.6**  
**PRELIMINARY FOREST CONSERVATION PLAN**  
**MD 355 - CLARKSBURG**  
**SHARED USE PATH**

Project No.: C.J.P. PR. #507144 SHEET 68 of 88

**WALLACE MONTGOMERY**  
Landscape Architecture + Environmental Planning  
19189 York Road, Suite 200  
P.O. Box 2000, Gaithersburg, MD 20878  
410.486.2500 Tel / 410.487.8828 Fax  
www.wallacemontgomery.com

\*NOTE: TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE LOD LAYOUT AND/OR INSTALLATION OF E&S MEASURES, MAY BE REQUIRED ALONG THE LINE OF CUT/FILL. DECISIONS ON TREE PROTECTION MEASURES MUST BE AGREED UPON BY A M-NCPPC FOREST CONSERVATION INSPECTOR BEFORE INSTALLATION.



GRAPHIC SCALE



# CERTIFICATION OF QUALIFIED PROFESSIONAL

I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MUNICIPAL AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

6.18.2020  
DATE

MICHAEL A. NORTON  
MONTGOMERY COUNTY  
QUALIFIED PROFESSIONAL

**DEVELOPER'S CERTIFICATE**

The Undergrader agrees to execute all the features of the Approved Final Forest Conservation Plan No. \_\_\_\_\_, including financial bonding, forest planting, maintenance, and all other applicable agreements.

Developer's Name: **MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION**  
Printed Company Name

Contact Person or Owner: **YASAMIN ESMALI - PROJECT MANAGER**  
Printed Name

Address: **101 MONROE ST., 10TH FLOOR  
ROCKVILLE, MD 20850**

Phone and Email: **240-777-7226  
Yasamin.Esmali@MontgomeryCountyMD.gov**

Signature: \_\_\_\_\_

**NORTON LAND DESIGN**  
LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING  
5148 DORSEY HALL DRIVE, 2ND FLOOR  
BALT. 443.542.9199 x101 DC 240.342.2329x101  
WWW.NORTONLANDDESIGN.COM

WATER CLASS	I/P/IV,P	WATERSHED	LITTLE SEMECA CREEK	MAP PAGE	24031C 01600
TRIBUTARY	ROCK CREEK				
TAX MAP	EW341,EW121	200 SHEET	24031C 01600	ADC MAP	24031C 01600
SCALE	AS SHOWN	DATE	AUGUST 2019	PROJ. NO.	15-138
				SHEET NO.	L-1.7

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

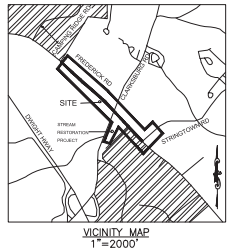
NO.	REVISION	DATE	BY

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

Designed by: H.J. Drawn by: H.J. Checked by: M.N.  
Project No.: C.J.P. PE #507144 SHEET 69 of 85

# PLAN SHEET L-1.7 PRELIMINARY FOREST CONSERVATION PLAN MD 355 - CLARKSBURG SHARED USE PATH

07/2018

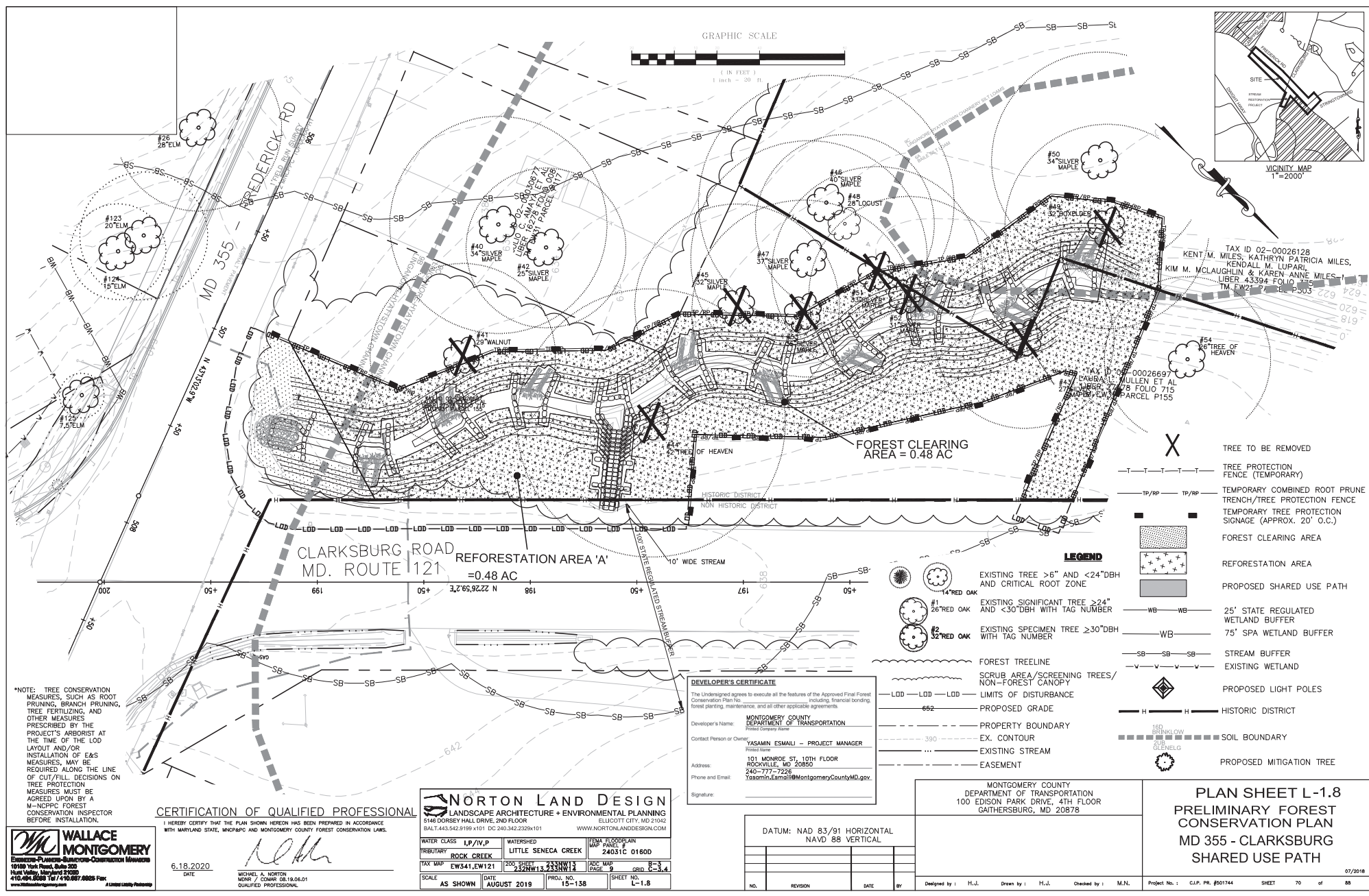


## LEGEND

- EXISTING TREE >6" AND <24" DBH AND CRITICAL ROOT ZONE
- EXISTING SIGNIFICANT TREE >24" AND <30" DBH WITH TAG NUMBER
- EXISTING SPECIMEN TREE >30" DBH WITH TAG NUMBER
- FOREST TREELINE
- SCRUB AREA/SCREENING TREES/ NON-FOREST CANOPY
- LIMITS OF DISTURBANCE
- PROPOSED GRADE
- PROPERTY BOUNDARY
- EX. CONTOUR
- EXISTING STREAM
- EASEMENT
- TREE TO BE REMOVED
- TREE PROTECTION FENCE (TEMPORARY)
- TEMPORARY COMBINED ROOT PRUNE TRENCH/TREE PROTECTION FENCE
- TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.C.)
- FOREST CLEARING AREA
- PROPOSED SHARED USE PATH
- 25' STATE REGULATED WETLAND BUFFER
- 75' SPA WETLAND BUFFER
- STREAM BUFFER
- EXISTING WETLAND
- PROPOSED LIGHT POLES
- SOIL BOUNDARY
- PROPOSED MITIGATION TREE



DRILL HOLES



\*NOTE: TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE LOD LAYOUT AND/OR INSTALLATION OF E&S MEASURES, MAY BE REQUIRED ALONG THE LINE OF CUT/FILL. DECISIONS ON TREE PROTECTION MEASURES MUST BE AGREED UPON BY A M-NCPFC FOREST CONSERVATION INSPECTOR BEFORE INSTALLATION.

CERTIFICATION OF QUALIFIED PROFESSIONAL

I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MNCPC AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

WALLACE MONTGOMERY  
19180 York Road, Suite 200  
Hunt Valley, Maryland 20830  
410.486.2628 T / 410.487.8828 F  
www.wallacemontgomery.com

**NORTON LAND DESIGN**  
LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING  
5146 DORSEY HALL DRIVE, 2ND FLOOR ELICOTT CITY, MD 21042  
BAL 1.443.542.9199 x101 DC 240.342.2329x101 WWW.NORTONLANDDESIGN.COM

WATER CLASS	I, P, V, P	WATERSHED	LITTLE SENECA CREEK	MAP PANEL	24031C 0160D
TRIBUTARY	ROCK CREEK	TAX MAP	EW341, EW121	2005 SHEET	233NW13
SCALE	AS SHOWN	DATE	AUGUST 2019	PROJ. NO.	15-158
				SHEET NO.	L-1.8

**DEVELOPER'S CERTIFICATE**  
The Undersigned agrees to execute all the features of the Approved Final Forest Conservation Plan No. \_\_\_\_\_, including, financial bonding, forest planting, maintenance, and all other applicable agreements.

Developer's Name: **MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION**  
Project Name: **YASAMIN ESMALI - PROJECT MANAGER**  
Contact Person or Owner: **YASAMIN ESMALI - PROJECT MANAGER**  
Address: **101 MONROE ST, 10TH FLOOR ROCKVILLE, MD 20850**  
Phone and Email: **240-777-7226 Yasamin.Esmali@MontgomeryCountyMD.gov**  
Signature: \_\_\_\_\_

- LEGEND**
- EXISTING TREE >6" AND <24" DBH AND CRITICAL ROOT ZONE
  - EXISTING SIGNIFICANT TREE ≥24" AND <30" DBH WITH TAG NUMBER
  - EXISTING SPECIMEN TREE ≥30" DBH WITH TAG NUMBER
  - FOREST TREELINE
  - SCRUB AREA/SCREENING TREES/NON-FOREST CANOPY
  - LIMITS OF DISTURBANCE
  - PROPOSED GRADE
  - PROPERTY BOUNDARY
  - EX. CONTOUR
  - EXISTING STREAM
  - EASEMENT

- TREE TO BE REMOVED
- TREE PROTECTION FENCE (TEMPORARY)
- TEMPORARY COMBINED ROOT PRUNE TRENCH/TREE PROTECTION FENCE
- TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.G.)
- FOREST CLEARING AREA
- REFORESTATION AREA
- PROPOSED SHARED USE PATH
- 25' STATE REGULATED WETLAND BUFFER
- 75' SPA WETLAND BUFFER
- STREAM BUFFER
- EXISTING WETLAND
- PROPOSED LIGHT POLES
- HISTORIC DISTRICT
- SOIL BOUNDARY
- PROPOSED MITIGATION TREE

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

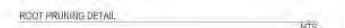
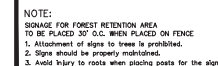
NO.	REVISION	DATE	BY


MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

Designed by: H.J. Drawn by: H.J. Checked by: M.N.  
Project No.: C.J.P. PE #507144 SHEET 70 of 88

**PLAN SHEET L-1.8**  
**PRELIMINARY FOREST CONSERVATION PLAN**  
**MD 355 - CLARKSBURG SHARED USE PATH**

**WALLACE  
MONTGOMERY**  
ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS  
10180 York Road, Suite 200  
Hunt Valley, Maryland 21086  
410.494.9089 Tel / 410.687.9826 Fax  
[www.wallacemontgomery.com](http://www.wallacemontgomery.com) A LEED® FIRM

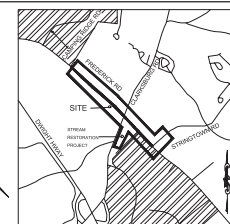
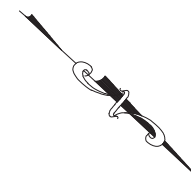


  
MICHAEL A. NORTON  
MDNR / COMAR 08.19.06.01  
QUALIFIED PROFESSIONAL

PLAN SHEET L-1.9  
PRELIMINARY FOREST  
CONSERVATION PLAN NOTES  
MD 355 - CLARKSBURG  
SHARED USE PATH

07/2018





VICINITY MAP

### LEGEND



EXISTING TREE

PROPOSED CANOPY TREE

### LIMITS OF DISTURBANCE

PROPERTY BOUNDARY

### EX. CONTOUR

EASEMENT

PROPOSED SHARED USE PATH

TULLEGRASS SOD ESTABLISHMENT

PROPOSED LIGHT POLES

TREE PROTECTION  
 FENCE (TEMPORARY)  
 TEMPORARY COMBINED ROOT PRUNE  
 TRENCH/TREE PROTECTION FENCE  
 TEMPORARY TREE PROTECTION  
 SIGNAGE (APPROX. 20' O.C.)

NOTE:  
SEE FOREST CONSERVATION PLAN FOR FOREST  
CLEARING & REFORESTATION INFORMATION.

## SITE LANDSCAPE PLANT SCHEDULE

TREES									
KEY	BOTANICAL NAME	COMMON NAME	SIZE	FORM	SPACING	QUANTITY	COMMENTS		
TREES									
NS	NYSSA SYLVATICA	BLACKGUM	2" CAL.	B&B	SHOWN	4			
SEED MIXES									
TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISHMENT - TALL FESCUE/KENTUCKY BLUEGRASS				TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	SQUARE YARD	10,226	STABILIZATION

<h1 style="text-align: center;">NORTON LAND DESIGN</h1> <p style="text-align: center;">LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING</p> <p style="text-align: center;">5145 DORSEY HILL DRIVE, 2ND FLOOR      ELLICOTT CITY, MD 21042</p> <p style="text-align: center;">BAL 744.542.9199 x101    DC 240.342.329x101      WWW.NORTONLANDDESIGN.COM</p>									
WATER CLASS		L/P, V/P		D40		FEMA FLOODPLAIN MAP		PAGE 1	
TRIBUTARY		ROCK CREEK		LITTLE SENECA CREEK		D4031C		0160D	
TAX MAP		EW3,41,EW121		2000 SHEET 2352N13, 2353N14		ADD MAP PAGE 9		C-3	
SCALE		AS SHOWN		DATE SEPTEMBER 2019		15-138		SHEET NO. L-21	

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

PLAN SHEET L-2.1  
LANDSCAPE PLAN

MD 355 - CLARKSBURG  
SHARED USE PATH

07/201

Designed by : H.V.	Drawn by : H.V.	Checked by : M.N.	Project No. : C.J.P. PR. #501744	SHEET	72	of	88
--------------------	-----------------	-------------------	----------------------------------	-------	----	----	----





DRILL HOLES

DRILL HOLES

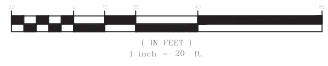
DRILL HOLES

\*NOTES: TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE LOD LAYOUT AND/OR INSTALLATION OF E&S MEASURES, MAY BE REQUIRED ALONG THE LINE OF CUT/FILL. DECISIONS ON TREE PROTECTION MEASURES MUST BE AGREED UPON BY A M-NCPPC FOREST CONSERVATION INSPECTOR BEFORE INSTALLATION.

SITE LANDSCAPE PLANT SCHEDULE

SEED MIXES					
TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISHMENT - TALL FESCUE/KENTUCKY BLUEGRASS	TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	SQUARE YARD	10,226
				STABILIZATION	

GRAPHIC SCALE



MISS UTILITY

CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. BEFORE EXCAVATION THE CONTRACTOR IS RESPONSIBLE FOR CALLING TICKET CHECK AT 1-800-821-4226 TO VERIFY THAT ALL UTILITIES HAVE BEEN MARKED, 48 HOURS AFTER CALLING MISS UTILITY. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.

**WALLACE MONTGOMERY**  
Landscape Architecture  
19180 York Road, Suite 200  
Hunt Valley, Maryland 21039  
410.466.2638 Tel / 410.467.0025 Fax  
www.wallacemontgomery.com

**NORTON LAND DESIGN**  
LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING  
5148 DORSEY HALL DRIVE, 2ND FLOOR  
BALT. 443.542.9199 x101 DC 240.342.2329x101  
www.nortonlanddesign.com

WATER CLASS	I/P/IV,P	WATERSHED	LITTLE SENECA CREEK	UTMA FLOODPLAIN	24031C 01600
TRIBUTARY	ROCK CREEK				
TAX MAP	EW341,EW121	200 SHEET	233NW13	ADC MAP	8-3-4
SCALE	AS SHOWN	DATE	SEPTEMBER 2019	PROJ. NO.	15-138
				SHEET NO.	L-2.3

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL			
NO.	REVISION	DATE	BY

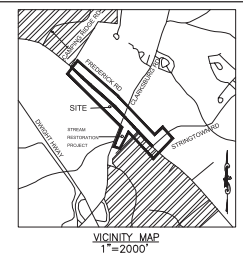
MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

Designed by: H.J. Drawn by: H.J. Checked by: M.N.  
Project No.: C.J.P. PK. #507144 SHEET 74 of 85

**PLAN SHEET L-2.3**  
**LANDSCAPE PLAN**

**MD 355 - CLARKSBURG**  
**SHARED USE PATH**

5/7/2018



LEGEND

- EXISTING TREE
- LIMITS OF DISTURBANCE
- PROPOSED GRADE
- PROPERTY BOUNDARY
- EX. CONTOUR
- EXISTING STREAM
- EASEMENT
- PROPOSED SHARED USE PATH
- TURFGRASS SOD ESTABLISHMENT
- PROPOSED LIGHT POLES
- TREE PROTECTION FENCE (TEMPORARY)
- TEMPORARY COMBINED ROOT PRUNE TRENCH/TREE PROTECTION FENCE
- TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.C.)

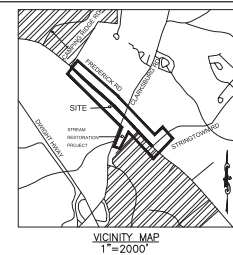
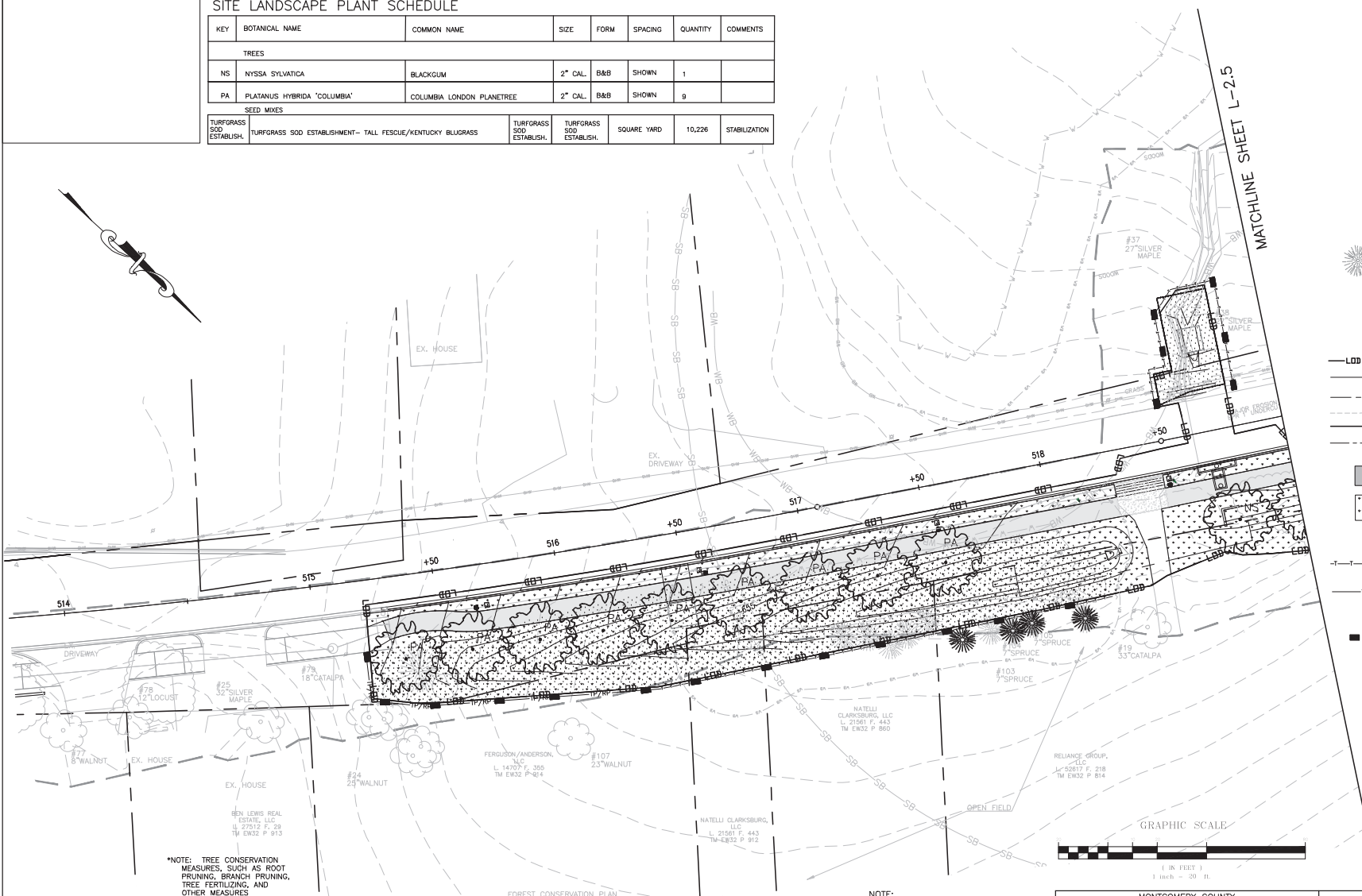
DRILL HOLES

DRILL HOLES

DRILL HOLES

# SITE LANDSCAPE PLANT SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	SIZE	FORM	SPACING	QUANTITY	COMMENTS
TREES							
NS	NYSSA SYLVATICA	BLACKGUM	2" CAL.	B&B	SHOWN	1	
PA	PLATANUS HYBRIDA 'COLUMBIA'	COLUMBIA LONDON PLANETREE	2" CAL.	B&B	SHOWN	9	
SEED MIXES							
TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISHMENT- TALL FESCUE/KENTUCKY BLUEGRASS		TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	SQUARE YARD	10,226	STABILIZATION



## LEGEND

- 14" RED OAK EXISTING TREE
- PROPOSED CANOPY TREE
- LIMITS OF DISTURBANCE
- PROPOSED GRADE
- PROPERTY BOUNDARY
- EX. CONTOUR
- EXISTING STREAM
- EASEMENT
- PROPOSED SHARED USE PATH
- TURFGRASS SOD ESTABLISHMENT
- PROPOSED LIGHT POLES
- TREE PROTECTION FENCE (TEMPORARY)
- TEMPORARY COMBINED ROOT PRUNE TRENCH/TREE PROTECTION FENCE
- TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.C.)

\*NOTE: TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE LOD LAYOUT AND/OR INSTALLATION OF E&S MEASURES, MAY BE REQUIRED ALONG THE LINE OF CUT/FILL. DECISIONS ON TREE PROTECTION MEASURES MUST BE AGREED UPON BY A M-NRPPC FOREST CONSERVATION INSPECTOR BEFORE INSTALLATION.

## MISS UTILITY

CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. BEFORE EXCAVATION THE CONTRACTOR IS RESPONSIBLE FOR CALLING TICKET CHECK AT 1-866-821-4226 TO VERIFY THAT ALL UTILITIES HAVE BEEN MARKED. 48 HOURS AFTER CALLING MISS UTILITY, THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.

**NORTON LAND DESIGN**  
LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING  
5148 DORSEY HALL DRIVE, 2ND FLOOR  
BALT. 443.542.9199 X101 DC 240.342.2329 X101  
WWW.NORTONLANDDESIGN.COM

WATER CLASS	1P/IV.P	WATERSHED	LITTLE SENECA CREEK	UTMA FLOODPLAIN	MAP PAGE: 1
TRIBUTARY	ROCK CREEK				24031C 01600
TAX MAP	EW341.EW121	200 SHEET	233NW13	ADC MAP	PAGE 9
SCALE	AS SHOWN	DATE	SEPTEMBER 2019	PROJ. NO.	15-138
				SHEET NO.	L-2.4

NOTE: SEE FOREST CONSERVATION PLAN FOR FOREST CLEARING & REFORESTATION INFORMATION.

DATUM: NAD 83/91 HORIZONTAL	
NAVD 88 VERTICAL	
NO.	REVISION
DATE	BY

**MONTGOMERY COUNTY**  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

Designed by :	H.J.	Drawn by :	H.J.	Checked by :	M.N.
Project No. :	C.J.P. PK. #501744	SHEET	75	of	85

**PLAN SHEET L-2.4**  
LANDSCAPE PLAN

**MD 355 - CLARKSBURG**  
SHARED USE PATH

07/2018

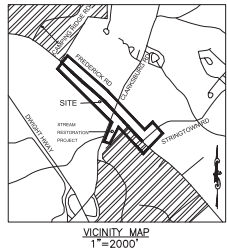
**WALLACE MONTGOMERY**  
Landscape Architecture + Environmental Planning  
19188 York Road, Suite 200  
Hunt Valley, Maryland 21039  
410.496.2500 Tel / 410.497.0825 Fax  
WWW.WALLACEMONTGOMERY.COM

**A LIMITED LIABILITY COMPANY**



# SITE LANDSCAPE PLANT SCHEDULE

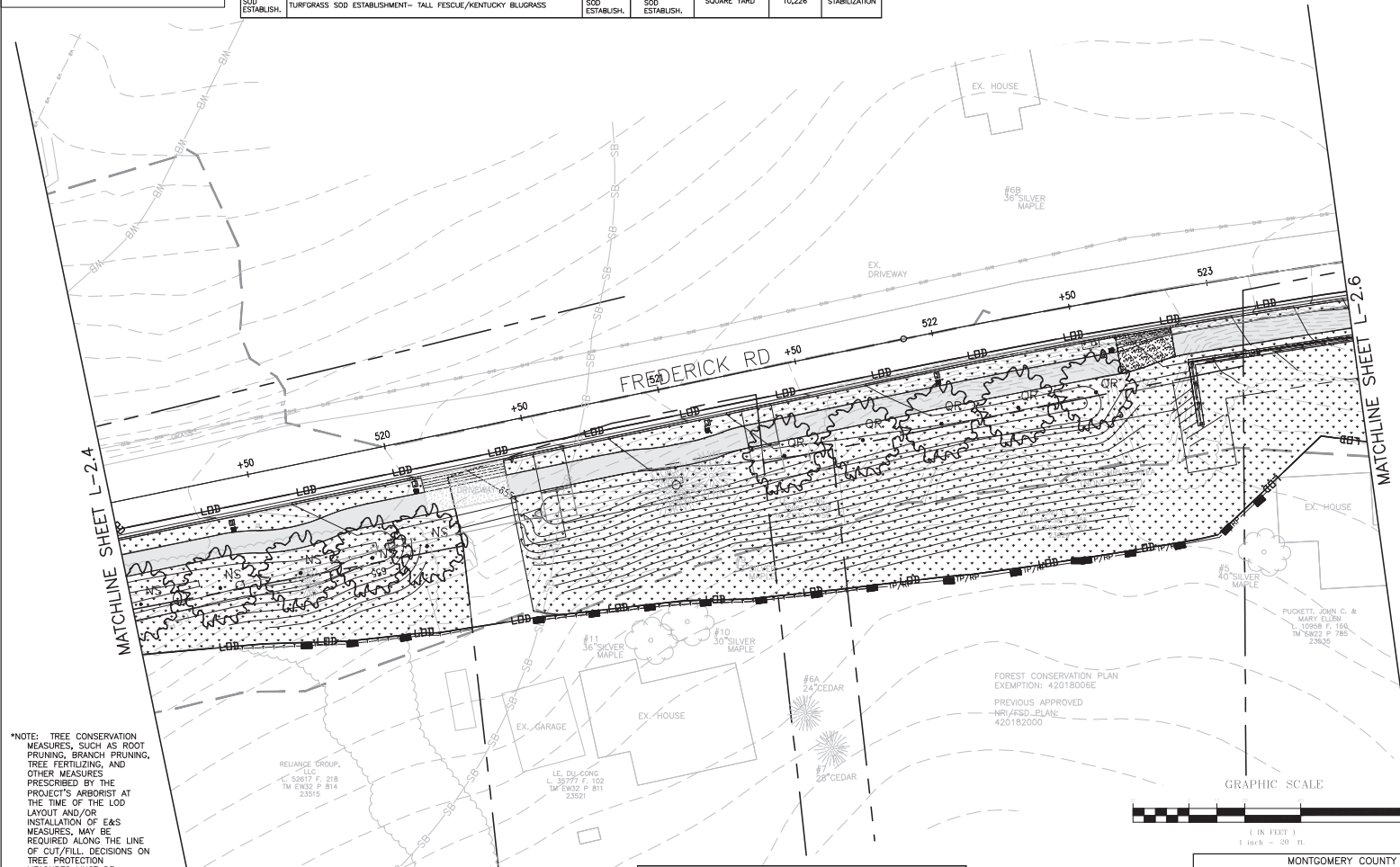
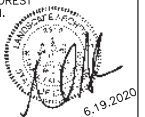
KEY	BOTANICAL NAME	COMMON NAME	SIZE	FORM	SPACING	QUANTITY	COMMENTS
TREES							
NS	NYSSA SYLVATICA	BLACKGUM	2" CAL.	B&B	SHOWN	5	
QR	QUERCUS RUBRA	NORTHERN RED OAK	2" CAL.	B&B	SHOWN	5	
SEED MIXES							
TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISHMENT- TALL FESCUE/KENTUCKY BLUEGRASS				TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	SQUARE YARD
						10,226	STABILIZATION



## LEGEND

- 14" RED OAK EXISTING TREE
- PROPOSED CANOPY TREE
- LDD LDD LDD LIMITS OF DISTURBANCE
- 652 PROPOSED GRADE
- PROPERTY BOUNDARY
- EX. CONTOUR
- EXISTING STREAM
- EASEMENT
- PROPOSED SHARED USE PATH
- TURFGRASS SOD ESTABLISHMENT
- PROPOSED LIGHT POLES
- TREE PROTECTION FENCE (TEMPORARY)
- TEMPORARY COMBINED ROOT PRUNE TRENCH/TREE PROTECTION FENCE
- TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.C.)

NOTE:  
SEE FOREST CONSERVATION PLAN FOR FOREST CLEARING & REFORESTATION INFORMATION.



\*NOTE: TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE LDD LAYOUT AND/OR INSTALLATION OF E&S MEASURES, MAY BE REQUIRED ALONG THE LINE OF CUT/FILL. DECISIONS ON TREE PROTECTION MEASURES MUST BE AGREED UPON BY A M-NOPPC FOREST CONSERVATION INSPECTOR BEFORE INSTALLATION.

## MISS UTILITY

CALL "MISS UTILITY AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. BEFORE EXCAVATION THE CONTRACTOR IS RESPONSIBLE FOR CALLING TICKET CHECK AT 1-800-821-4226 TO VERIFY THAT ALL UTILITIES HAVE BEEN MARKED, 48 HOURS AFTER CALLING MISS UTILITY. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.

<b>NORTON LAND DESIGN</b>		LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING	
5148 DORSEY HALL DRIVE, 2ND FLOOR		ELLCOTT CITY, MD 21042	
BALT. 443.542.9199 X101 DC 240.342.2329 X101		WWW.NORTONLANDDESIGN.COM	
WATER CLASS	I/P/IV,P	WATERSHED	LITTLE SENECA CREEK
TRIBUTARY	ROCK CREEK	WATER CLASS	24031C 0160D
TAX MAP	EW341,EW121	200' SHEET	233NW13
SCALE	AS SHOWN	DATE	SEPTEMBER 2019
PROJ. NO.	15-138	SHEET NO.	L-2.5

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

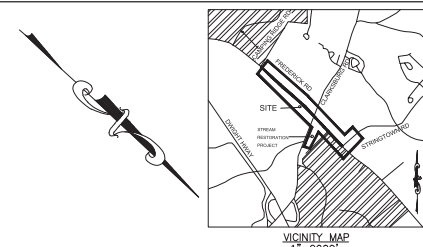
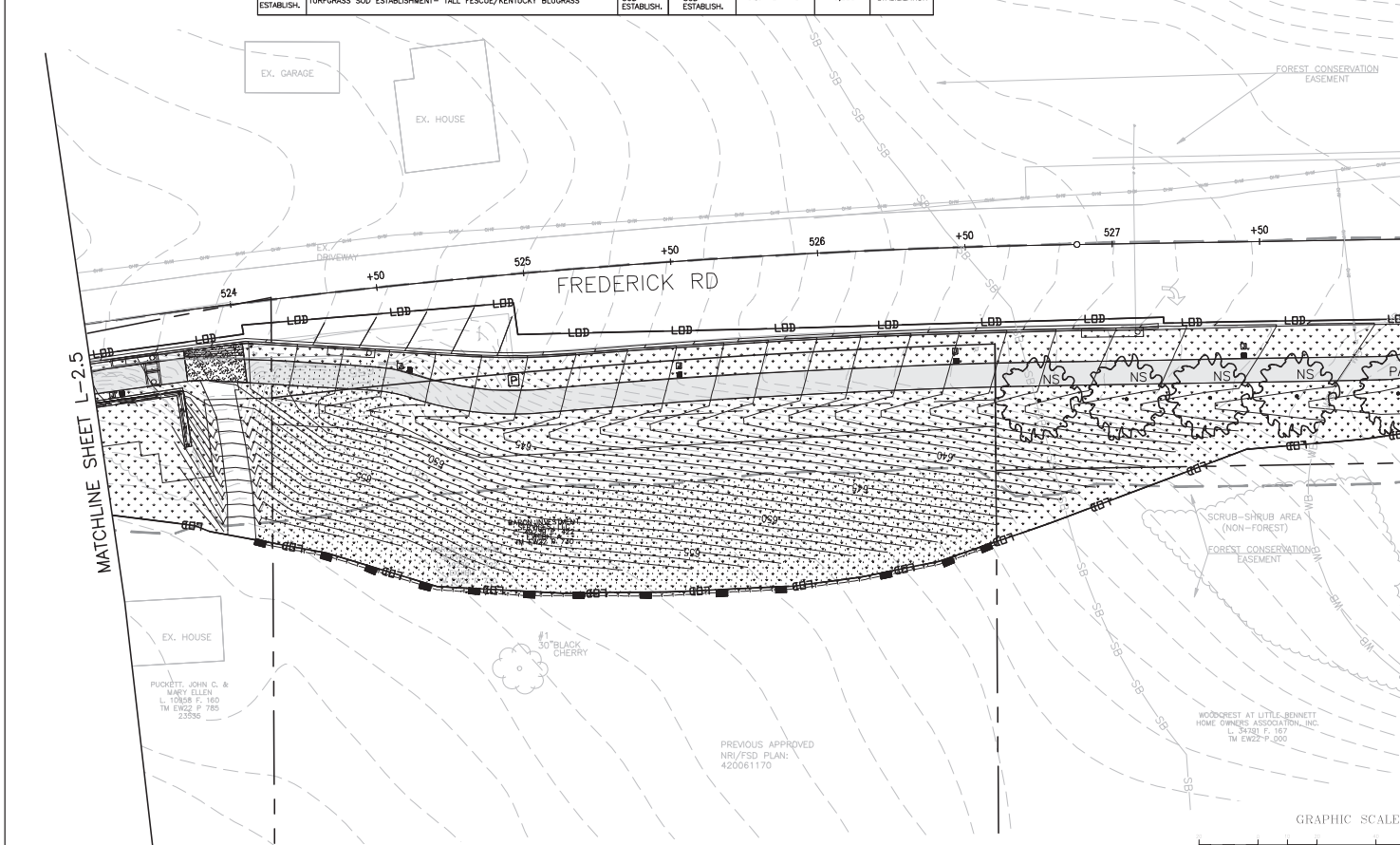
## PLAN SHEET L-2.5 LANDSCAPE PLAN

MD 355 - CLARKSBURG  
SHARED USE PATH

Designed by: H.J. Drawn by: H.J. Checked by: M.N. Project No.: C.J.P. PE #507144 SHEET 76 of 85

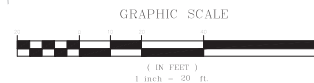
# SITE LANDSCAPE PLANT SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	SIZE	FORM	SPACING	QUANTITY	COMMENTS
TREES							
NS	NYSSA SYLVATICA	BLACKGUM	2" CAL.	B&B	SHOWN	4	
PA	PLATANUS HYBRIDA 'COLUMBIA'	COLUMBIA LONDON PLANETREE	2" CAL.	B&B	SHOWN	1	
SEED MIXES							
TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISHMENT - TALL FESCUE/KENTUCKY BLUEGRASS		TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	SQUARE YARD	10,226	STABILIZATION



- LEGEND**
- 14" RED OAK EXISTING TREE
  - QP PROPOSED CANOPY TREE
  - LOD LIMITS OF DISTURBANCE
  - 652 PROPOSED GRADE
  - PROPERTY BOUNDARY
  - EX. CONTOUR
  - EXISTING STREAM
  - EASEMENT
  - PROPOSED SHARED USE TRAIL
  - TURFGRASS SOD ESTABLISHMENT
  - PROPOSED LIGHT POLES
  - TREE PROTECTION FENCE (TEMPORARY)
  - TEMPORARY COMBINED ROOT PRUNE TRENCH/TREE PROTECTION FENCE
  - TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.C.)

NOTE:  
SEE FOREST CONSERVATION PLAN FOR FOREST  
CLEARING & REFORESTATION INFORMATION.



\*NOTE: TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE LOD LAYOUT AND/OR INSTALLATION OF E&S MEASURES, MAY BE REQUIRED ALONG THE LINE OF CUT/FILL. DECISIONS ON TREE PROTECTION MEASURES MUST BE AGREED UPON BY A M-NCPFC FOREST CONSERVATION INSPECTOR BEFORE INSTALLATION.

## MISS UTILITY

CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. BEFORE EXCAVATION THE CONTRACTOR IS RESPONSIBLE FOR CALLING TICKET CHECK AT 1-866-921-4226 TO VERIFY THAT ALL UTILITIES HAVE BEEN MARKED. 48 HOURS AFTER CALLING MISS UTILITY, THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.

**NORTON LAND DESIGN**  
LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING  
5148 DORSEY HALL DRIVE, 2ND FLOOR  
BALT. 443.542.9199 X101 DC 240.342.2329X101  
WWW.NORTONLANDDESIGN.COM

WATER CLASS I/P/V/P WATERSHED LITTLE SEMECA CREEK  
TRIBUTARY ROCK CREEK  
TAX MAP EW341.EW121 200 SHEET 233NW13  
SCALE AS SHOWN DATE SEPTEMBER 2019 PROJ. NO. 15-138 SHEET NO. L-2.6

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

## PLAN SHEET L-2.6 LANDSCAPE PLAN

MD 355 - CLARKSBURG  
SHARED USE PATH

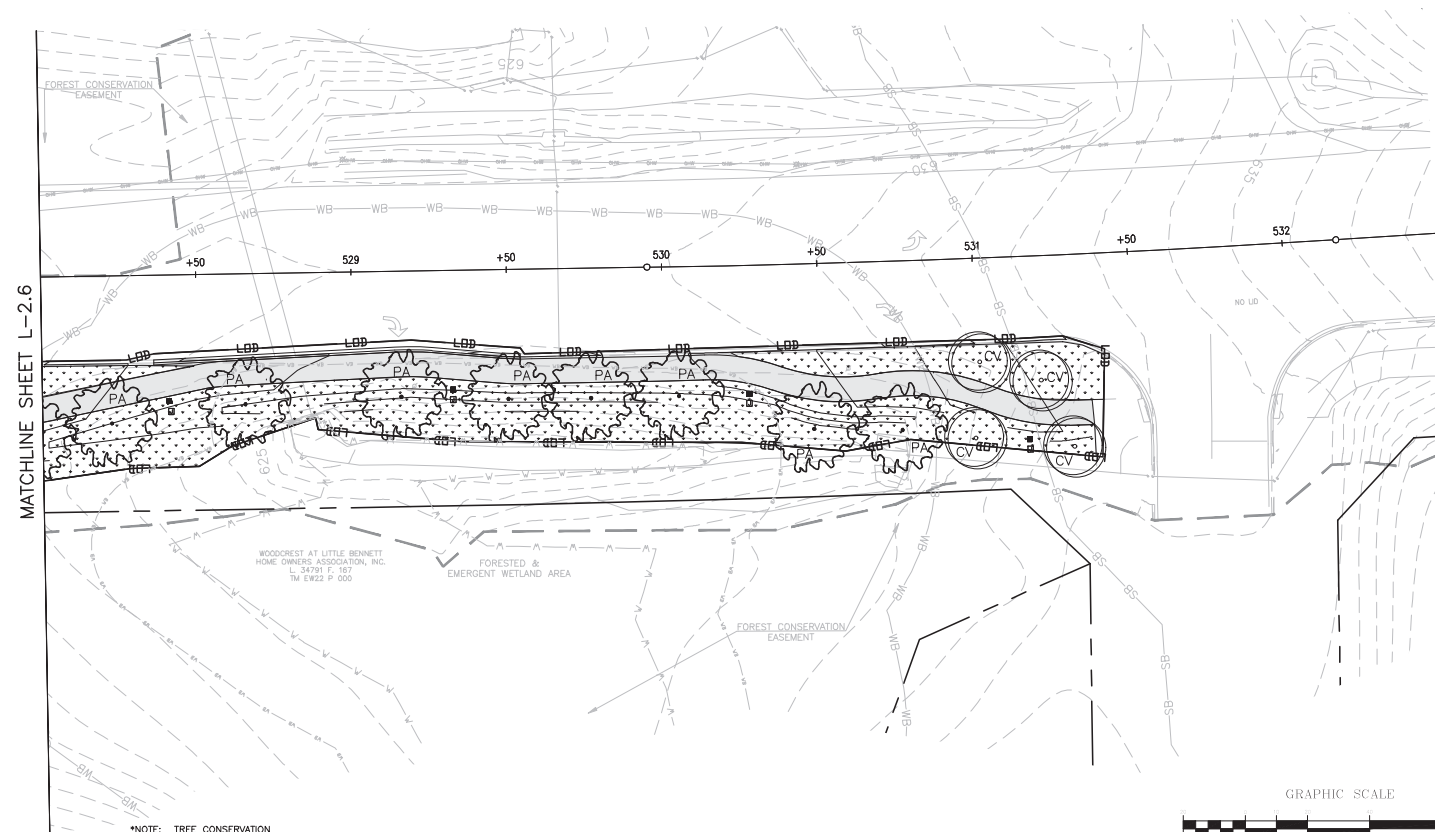
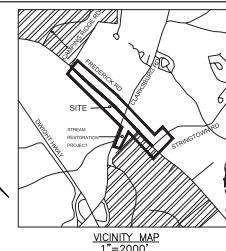
Designed by: H.J. Drawn by: H.J. Checked by: M.N. Project No.: C.J.P. PR. #507144 SHEET 77 of 85



# SITE LANDSCAPE PLANT SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	SIZE	FORM	SPACING	QUANTITY	COMMENTS
TREES							
CV	CHIONANTHUS VIRGINICUS	WHITE FRINGETREE	7'-8'	B&B	SHOWN	4	
PA	PLATANUS HYBRIDA 'COLUMBIA'	COLUMBIA LONDON PLANETREE	2" CAL.	B&B	SHOWN	8	

SEED MIXES							
TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISHMENT- TALL FESCUE/KENTUCKY BLUEGRASS			TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	SQUARE YARD	10,226
							STABILIZATION



## LEGEND

- 14" RED OAK EXISTING TREE
- PROPOSED CANOPY TREE
- PROPOSED ORNAMENTAL TREE
- LIMITS OF DISTURBANCE
- PROPOSED GRADE
- PROPERTY BOUNDARY
- EX. CONTOUR
- EXISTING STREAM
- EASEMENT
- PROPOSED SHARED USE PATH
- TURFGRASS SOD ESTABLISHMENT
- PROPOSED LIGHT POLES

NOTE:  
SEE FOREST CONSERVATION PLAN FOR FOREST  
CLEARING & REFORESTATION INFORMATION.



**MISS UTILITY**  
CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. BEFORE EXCAVATION THE CONTRACTOR IS RESPONSIBLE FOR CALLING TICKET CHECK AT 1-866-821-4226 TO VERIFY THAT ALL UTILITIES HAVE BEEN MARKED. 48 HOURS AFTER CALLING MISS UTILITY, THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.

NORTON LAND DESIGN			
LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING			
5148 DORSEY HALL DRIVE, 2ND FLOOR			
BALT. 443.542.9199 X101 DC 240.342.2329 X101			
WWW.NORTONLANDDESIGN.COM			
WATER CLASS	I/P/V/P	WATERSHED	LITTLE SENECA CREEK
TRIBUTARY	ROCK CREEK	WATER SHED	LITTLE SENECA CREEK
TAX MAP	EW341.EW121	200' SHEET	233NW13
SCALE	AS SHOWN	DATE	SEPTEMBER 2019
PROJ. NO.	15-138	SHEET NO.	L-2.7

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

Designed by: H.J. Drawn by: H.J. Checked by: M.N.  
Project No.: C.J.P. PE #507144 SHEET 78 of 85

## PLAN SHEET L-2.7 LANDSCAPE PLAN

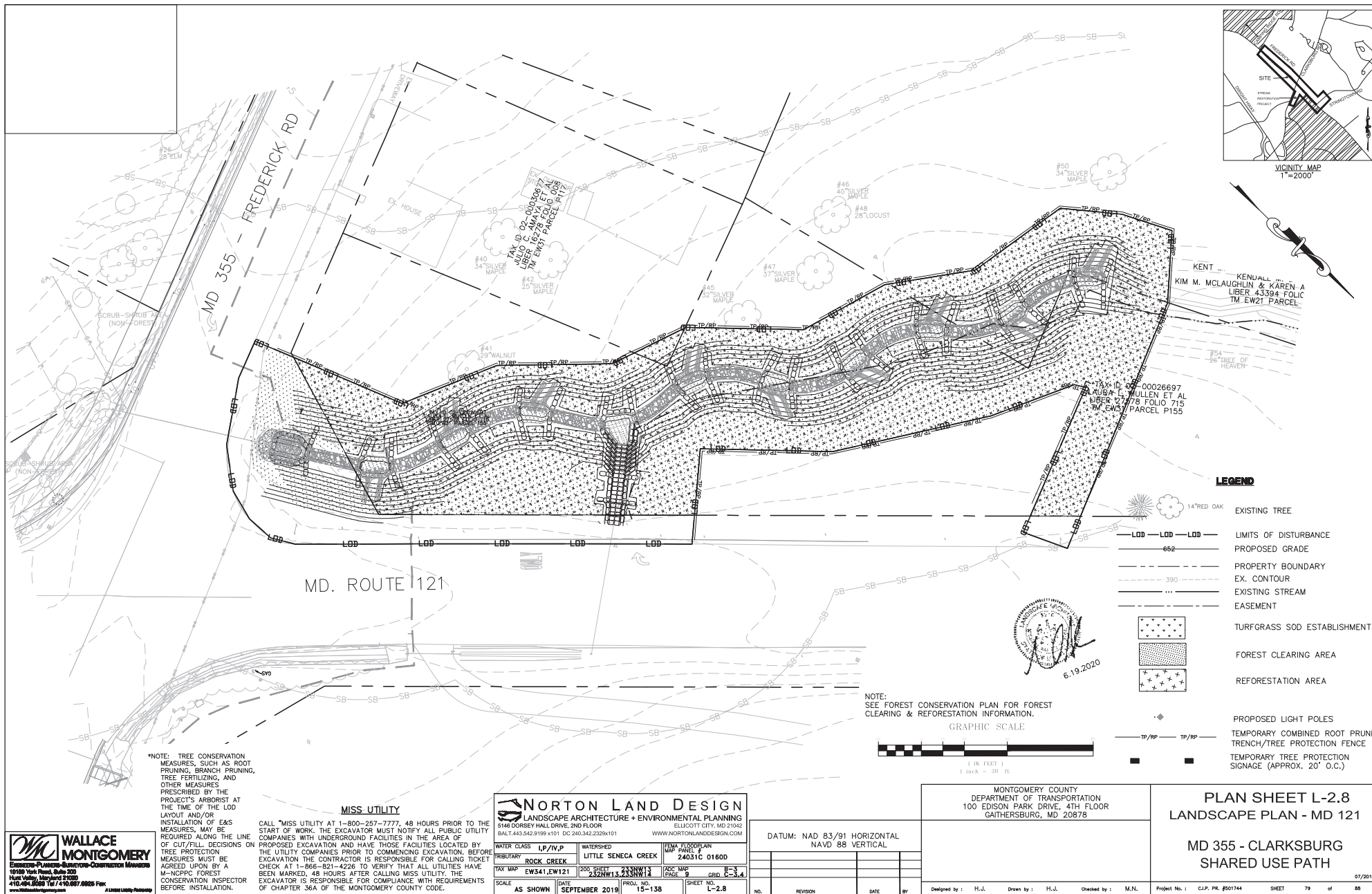
MD 355 - CLARKSBURG  
SHARED USE PATH



DRILL HOLES

DRILL HOLES

DRILL HOLES



DRILL HOLES

DRILL HOLES

DRILL HOLES

#### 7.1 SHA LANDSCAPE NOTES:

Landscape construction within rights of way of the Maryland State Highway Administration (SHA) and within SHA property, easement areas and lands to be conveyed to SHA shall conform to these Notes. For guidance regarding design modifications during construction, refer to SHA Landscape Design Guide, SHA Landscape Estimating Manual, and SHA Environmental Guide for Access and District Permit Applicants at <http://www.roads.maryland.gov/index.aspx?PageId=25>

#### 7.2 SHA Standard Specifications:

Landscape construction shall conform to Sections 701 through 716, and landscape materials shall conform to Section 920 of the most recent revision of SHA Standard Specifications for Construction and Materials, including all revisions and supplements, and as specified in these notes. These requirements shall supersede all other specifications for work on SHA property. All SHA specifications for landscaping and landscape materials published in 2008 have been replaced. Current Specifications are at <http://www.roads.maryland.gov/index.aspx?PageId=44>.

#### 7.3 Erosion and Sediment Control Manager (ESCM):

Soil disturbance such as grading, excavation, soil placement or other activities that involve soil disturbance shall be supervised by an ESCM Manager with a valid SHA Yellow Card in conformance with SHA Standard Specifications and any applicable Erosion and Sediment Control Permit.

#### 7.4 SHA Standard Details for Trees, Shrubs and Planting Beds:

The installation of trees, shrubs, planting beds and other landscape construction related to Section 710 of the SHA Standard Specifications shall conform to the SHA Book of Standards for Highway & Incident Structures - Category 7 at <http://apps.roads.maryland.gov/BusinessWithSHA/bizStdSpecs/desManualStdPub/publicationsonline/ohd/bookstd/toccat7.asp>.

#### 7.5 Temporary Stabilization:

Shall be installed in conformance with Section 704 to ensure that areas of soil disturbance are protected from wind, rainfall and flowing water until permanent stabilization is installed:

1. Temporary Mulch, either as temporary straw mulch or temporary matting mulch, shall be installed at the end of each working day to provide "some day stabilization" unless other approved stabilization is installed.
2. Temporary straw mulch shall be installed on areas and slopes flatter than 4:1; temporary matting mulch shall be applied on slopes 4:1 and steeper, and to areas within channels.
3. Temporary Seed shall be installed in lieu of Temporary Mulch when soil redistribution is expected more than 30 days after soil disturbance. The required application rate shall be 100 lbs per acre of 37-0-0 (SCU) fertilizer.

#### 7.6 Roadway Pavement Removal:

Areas of roadway pavement removal shall be excavated to remove pavements, aggregate base, and compacted soil to a minimum depth of 10 inches below the pavement surface, or as necessary to remove all materials unsuitable for landscaping. The excavated areas shall be restored with subsoil and topsoil as part of Soil Restoration.

#### 7.7 Excavation and Debris Removal:

Debris related to the demolition of sidewalks, driveways, curbs, trees, slumps, roots, fencing, pipes, and other materials that may interfere with landscape installation or future maintenance shall be excavated as necessary for their complete removal and disposal.

#### 7.8 Soil Restoration:

Areas of pavement removal, excavation or drilling in landscaped

areas shall remove excavated debris and restore the subgrade with approved subsoil and topsoil placed in conformance with Section 701 of the SHA Standard Specifications.

1. A layer of approved topsoil of at least a 4-inch depth shall be placed on all disturbed areas flatter than 2:1 and in all channels prior to seeding, sodding or other landscaping, unless otherwise specified.
2. A layer of approved topsoil of at least a 2-inch depth shall be placed on all disturbed areas 2:1 and steeper prior to seeding, sodding or other landscaping, unless otherwise specified.
3. Bio-retention Soil Mix (BSM) and other materials installed in conjunction with SPI 316 - Stormwater Filtration Facilities and SHA stormwater details shall be installed in conformance with SHA Landscape Notes and landscape plans. Plant materials and mulch shall be installed in BSM in conformance with stormwater details, Section 710 or other SHA Specifications.

#### 7.9 Turfgrass Sod Establishment:

Shall be performed in all disturbed areas, or within the areas indicated in the plans, in conformance with Section 708 of the SHA Standard Specifications. The required application rate of 20-16-12 fertilizer shall be 200 lbs per acre, and no fertilizer shall be applied from November 15 to March 1.

#### 7.11 Soil Stabilization Matting:

Shall be installed in conformance with Section 709 of the SHA Standard Specifications, in conjunction with Turfgrass Establishment per Section 705 or Meadow Establishment per Section 707 as follows:

1. Areas Flatter than 6:1, Type A or Type E matting may be installed in lieu of straw mulch and hydromulch binder in conjunction with Turfgrass Establishment.
2. Areas Steeper than 6:1 and Flatter than 4:1, Type A or Type E matting shall be installed in lieu of straw mulch and hydromulch binder in conjunction with Turfgrass Establishment, unless delineated and noted otherwise.
3. Channels, Stormwater Management Facilities, and Slopes 4:1 and Steeper Type A Soil Stabilization Matting shall be installed in lieu of straw mulch and hydromulch binder in conjunction with Turfgrass Establishment, unless delineated and noted otherwise.

#### 7.13 Tree Preservation Areas:

Temporary Orange Construction Fence (TOCF) shall be installed in locations delineated on the plans as Tree Preservation Areas (TPA) in conformance with Section 120 of the SHA Standard Specification to protect existing trees and other vegetation during construction. Areas within TOCF shall be protected from all prohibited and restricted activities, per Section 120.

#### 7.14 Roadside Tree Permit:

Tree removal, tree installation, tree root and branch pruning, and other regulated impacts to trees in the SHA right of way shall conform to the requirements of the Roadside Tree Permit (RTP) issued by the Maryland Department of Natural Resources, or the approved Forest Conservation Plan (FCP) of the local authority.

1. A copy of the RTP or FCP shall be submitted to the SHA Office of Environmental Design before work is performed, and a copy of the RTP or FCP shall be reproduced in the plans or be in possession of the applicant at the project site when the permitted work is performed.
2. A Maryland Licensed Tree Expert shall perform the specified tree operations in conformance with the SHA Standard Specifications and ANSI A300 Standards for Tree Care Operations.

#### 7.15 Trees and Other Plant Material Installation:

Trees, shrubs, perennials, annuals, bulbs, landscape beds, bark, mulch and similar materials shall be installed in conformance with Section 710 and 711 of the SHA Standard Specifications. Tree and shrubs shall be pruned at the time of installation to ensure sidewalk clearance for pedestrians is maintained to a height of 8 feet. No tree or shrub shall be installed within 3 feet of curbs, sidewalks, or pavement edges.

#### 7.21 Tree Branch Pruning:

Shall be performed or directly supervised by a Maryland Licensed Tree Expert in conformance with ANSI A300 standards per Section 712 as necessary for any of the following: To install Temporary Orange Construction Fence (TOCF) along delineations on plans; to perform Tree Root Pruning along delineations on plans; to provide 8-foot clearance above sidewalk pavements and 16-foot clearance above roadway pavements; to repair tree wounds; and to perform other recommended cleaning, thinning, reducing, and pruning necessary to accommodate utilities. All debris shall be removed from SHA property.

#### 7.22 Tree Root Pruning:

Shall be performed along the line shown on the plans in conformance with Section 715. Tree Root Pruning shall be completed before beginning excavation or construction adjacent to trees to be preserved.

#### 7.23 Tree Fertilizing:

Shall be performed in conformance with Operation 3 - Broadcast Fertilizing per Section 716. 20-16-12 fertilizer shall be applied to the soil surface under the drip line of trees at the rate of 200 lbs. per acre.

#### 7.25 Future Maintenance:

Additional maintenance that may be required after hardscaping, street furniture or plant materials are installed and accepted by SHA such as replacement, watering, weeding, mulching or pest control may be provided by the applicant when a permit for the proposed work is issued by the SHA District Office.

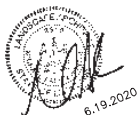
\*NOTE: TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE LOD LAYOUT AND/OR INSTALLATION OF EAS MEASURES, MAY BE REQUIRED ALONG THE LINE OF CUT/FILL. DECISIONS ON TREE PROTECTION MEASURES MUST BE AGREED UPON BY A M-NCPIC FOREST CONSERVATION INSPECTOR BEFORE INSTALLATION.



#### MISS UTILITY

CALL "MISS UTILITY AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. BEFORE EXCAVATION THE CONTRACTOR IS RESPONSIBLE FOR CALLING TICKET CHECK AT 1-800-821-4226 TO VERIFY THAT ALL UTILITIES HAVE BEEN MARKED, 48 HOURS AFTER CALLING MISS UTILITY. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.

<b>NORTON LAND DESIGN</b> LANDSCAPE ARCHITECTURE & ENVIRONMENTAL PLANNING 5148 DORSEY HALL DRIVE, 2ND FLOOR BALT. 443.542.9199 x101 DC 240.342.2329x101 WWW.NORTONLANDDESIGN.COM	
WATER CLASS	I/P/IV/P
TRIBUTARY	ROCK CREEK
WATERSHED	LITTLE SENECA CREEK
UTMA FLOODPLAIN	24031C 01600
TAX MAP	EW341.EW121
200 SHEET	24031C 01600
DATE	SEPTEMBER 2019
SCALE	AS SHOWN
PROJ. NO.	15-138
SHEET NO.	LS-2.9



DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

#### SITE LANDSCAPE PLANT SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	SIZE	FORM	SPACING	QUANTITY	COMMENTS
TREES							
CV	CHIONANTHUS VIRGINICUS	WHITE FRINGETREE	7"-8"	B&B	SHOWN	4	
NS	NYSSA SYLVATICA	BLACKGUM	2" CAL.	B&B	SHOWN	18	
PA	PLATANUS HYBRIDA "COLUMBIA"	COLUMBIA LONDON PLANETREE	2" CAL.	B&B	SHOWN	18	
QR	QUERCUS RUBRA	NORTHERN RED OAK	2" CAL.	B&B	SHOWN	5	

SEED MIXES							
TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISHMENT - TALL FESCUE/KENTUCKY BLUEGRASS				TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	SQUARE YARD
							10,226
							STABILIZATION

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

#### PLAN SHEET L-2.9 LANDSCAPE - NOTES

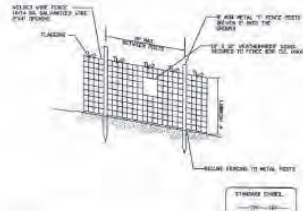
#### MD 355 - CLARKSBURG SHARED USE PATH

07/2018

Designed by: H.J. Drawn by: H.J. Checked by: M.N. Project No.: C.J.P. PR. #507144 SHEET 80 of 88

### Tree Protection Fence Detail

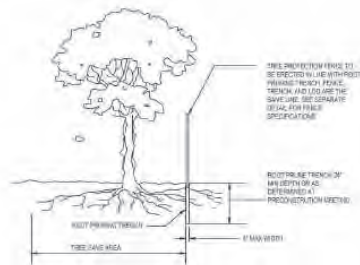
Not to scale



## NOTES

1. Practice may be combined with summer control fencing.
2. Location and limits of fencing should be coordinated in field with arborist.
3. Boundaries of protection area should be staked prior to installing protective device.
4. Root damage should be avoided.
5. Protection signage is required.
6. Fencing shall be maintained throughout construction.

Montgomery County Planning Department • 901 M HCRF  
MontgomeryPlanning.org



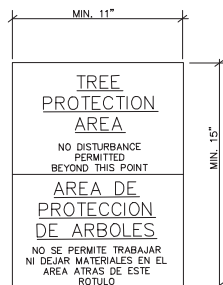
## NOTES

1. RETENTION AREAS WILL BE SET AS PART OF THE REVIEW PROCESS AND PRECONSTRUCTION MEETING.
2. BOUNDARIES OF RETENTION AREAS MUST BE STAKED AT THE PRECONSTRUCTION MEETING AND FLAGGED PRIOR TO TRENCHING.
3. EXACT LOCATION OF TRENCH SHALL BE DETERMINED IN THE FIELD IN COORDINATION WITH THE FOREST CONSERVATION (FC) INSPECTOR.
4. TRENCH SHOULD BE IMMEDIATELY BACKFILLED WITH EXCAVATED SOIL OR OTHER ORGANIC SOIL ADAPPOSED PER PLAN OR BY THE FOREST INSPECTOR.
5. ROCKS SHALL BE CLEAN, VIBROTATION VIBRATORY HAMMER OR OTHER ACCEPTABLE EQUIPMENT.
6. ALL PRUNING MUST BE EXECUTED WITH LOG CHAIN OR PLANS OR AS AUTHORIZED BY WRITING BY THE PLANS INSPECTOR.

ROOT PRUNING DETAIL

NTS

## FOREST RETENTION AREA SIGNAGE

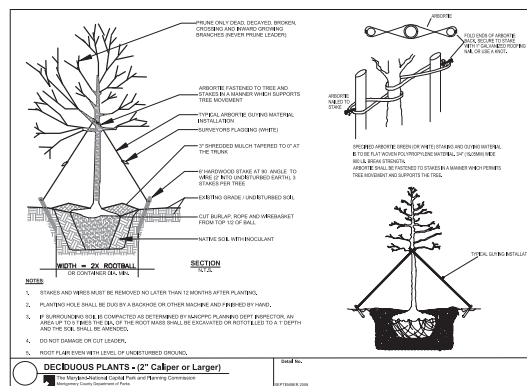


NOTE:

- SIGNAGE FOR FOREST RETENTION AREA  
TO BE PLACED 30' O.C. WHEN PLACED ON FENCE
1. Attachment of signs to trees is prohibited.
  2. Signs should be properly maintained.
  3. Avoid injury to roots when placing posts for the signs.

## MISS UTILITY

CALL MISS UTILITY AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE UTILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. BEFORE EXCAVATION THE CONTRACTOR IS RESPONSIBLE FOR CALLING TICKET CHECK AT 1-866-821-4226 TO VERIFY THAT ALL UTILITIES HAVE BEEN MARKED, 48 HOURS AFTER CALLING MISS UTILITY. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.



6.19.2020



WATER CLASS I,P/IV,P		WATERSHED LITTLE SENECA CREEK		FEMA FLOODPLAIN MAP PANEL # 24031C 0160D	
TRIBUTARY ROCK CREEK					
TAX MAP EW341,EW121		200 SHEET 232NW13,233NW14		ADC MAP PAGE 9	
				B-3 GRID C-3,4	
SCALE AS SHOWN		DATE SEPTEMBER 2019		PROJ. NO. 15-138	
				SHEET NO. LS-2.10	

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO.	REVISION	DATE

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

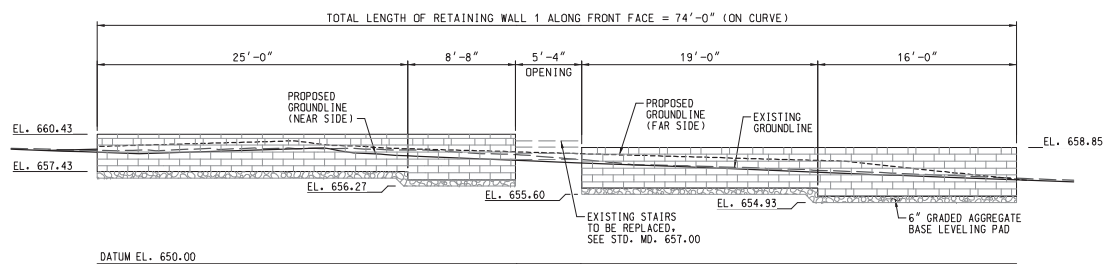
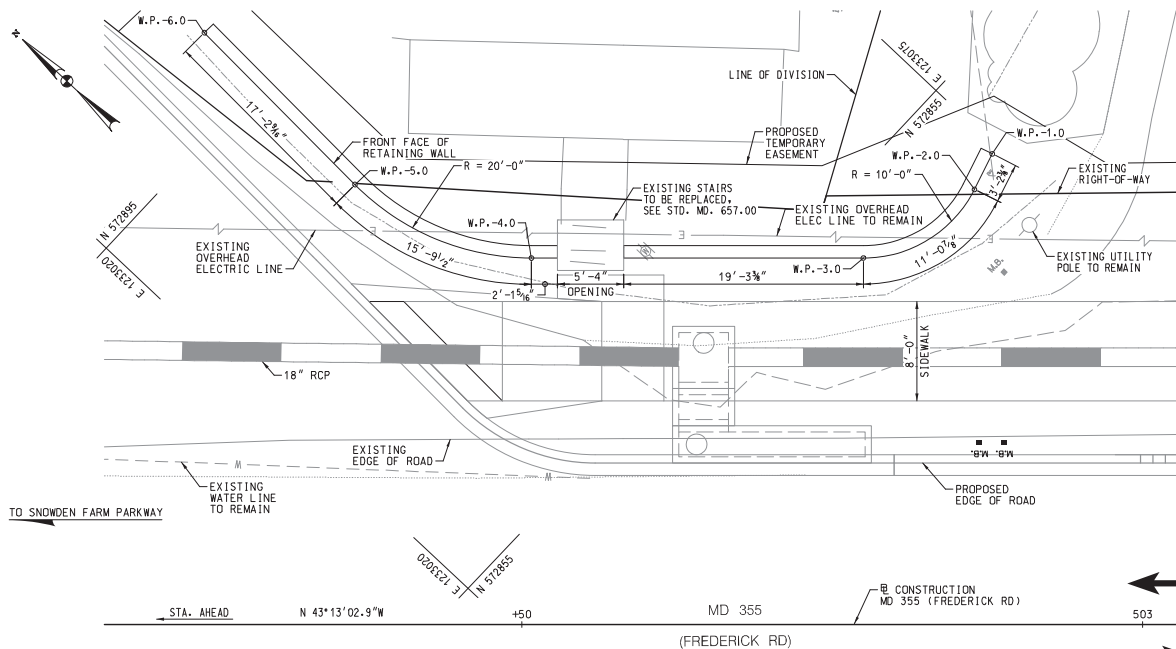
PLAN SHEET L-2.10  
LANDSCAPE - DETAILS

MD 355 - CLARKSBURG  
SHARED USE PATH

07/2018

Designed by : H.J.	Drawn by : H.J.	Checked by : M.N.	Project No. : C.J.P. PR. #501744	SHEET	81	of	88
--------------------	-----------------	-------------------	----------------------------------	-------	----	----	----





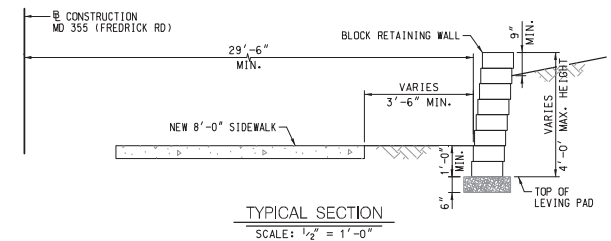
#### GENERAL NOTES:

SPECIFICATIONS: - SHA SPECIFICATIONS DATED JULY 1, 2020  
- REVISIONS THEREOF AND ADDITIONS THERETO AND SPECIAL PROVISIONS FOR MATERIALS AND CONSTRUCTION

KEYS: ALL KEYS ARE NOMINAL SIZE.

WORKING POINT DATA				
MARK	STATION	OFFSET	NORTHING	EASTING
W.P.-1.0	503 + 12.12	37.89' RT.	572,848.2137	1,233,074.3800
W.P.-2.0	503 + 13.55	35.03' RT.	572,847.2967	1,233,071.3143
W.P.-3.0	503 + 22.50	29.50' RT.	572,850.0206	1,233,061.1640
W.P.-4.0	503 + 49.22	29.50' RT.	572,860.5041	1,233,042.8621
W.P.-5.0	503 + 63.42	35.42' RT.	572,883.8054	1,233,037.4497
W.P.-6.0	503 + 75.54	47.64' RT.	572,901.1082	1,233,038.0572

NOTE:  
SOIL SHALL HAVE A MINIMUM ALLOWABLE SOIL BEARING PRESSURE OF 2,000 PSF.



#### NOTES:

1. FOR ROADWAY PLANS, SEE DRAWING NO. PS-03.
2. SEE SPECIAL PROVISIONS FOR PRE-APPROVED ALTERNATE WALL SYSTEMS.

#### UPDATED 90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

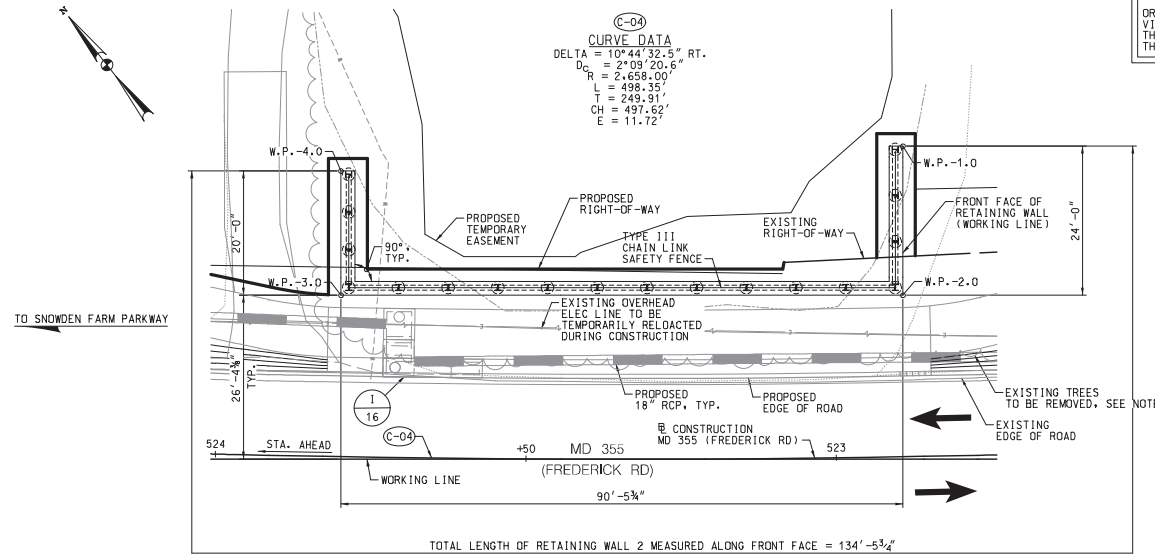
NO.	REVISION	DATE	BY

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL	
CHM, Design Section	Date
APPROVED	
Chief, Division of Engineering Services	Date
Designed by: M.E.P.	Drawn by: C.N.W.
Checked by: D.A.L.	

#### RETAINING WALL 1 GENERAL PLAN AND ELEVATION MD 355 - CLARKSBURG SHARED USE PATH

SCALE: AS NOTED  
Project No.: C.I.P. PR. # S01744 SHEET 83 of 88  
08/2020



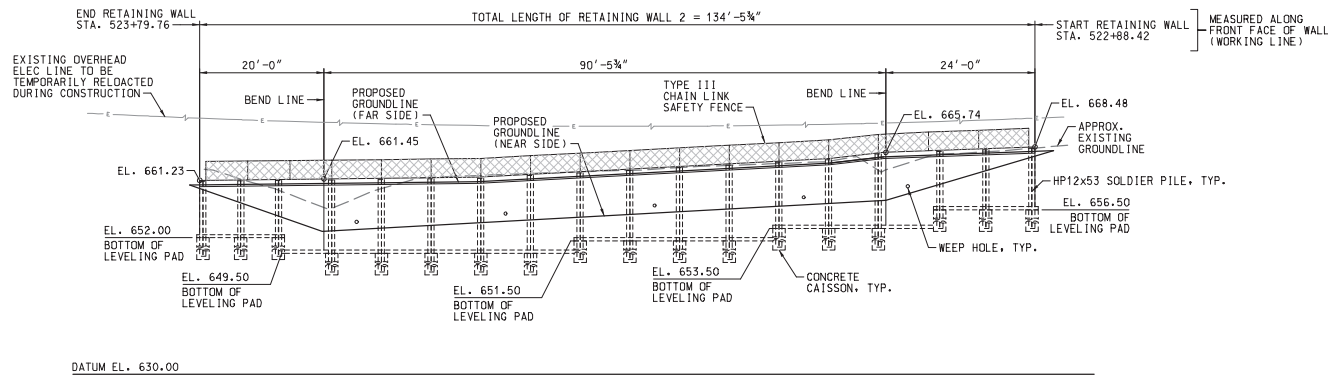
**NOTE:**  
 ORIENTATION OF THIS VIEW DOES NOT MATCH THE ORIENTATION OF THE HIGHWAY PLANS.

#### GENERAL NOTES:

- SPECIFICATIONS:** MDOT SHA STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED JULY 2020.
- DESIGN:** AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, DATED 2017.
- CONCRETE:** ALL CONCRETE SHALL BE MIX NO. 3 (3500 PSI).  
 CONCRETE COMPRESSIVE STRENGTH FOR DESIGN SHALL BE  $f'_c = 3000$  PSI.
- REINFORCING STEEL:** REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, WITH A YIELD STRENGTH FOR DESIGN OF  $f_y = 60000$  PSI.  
 ALL SPLICES, NOT SHOWN, SHALL BE LAPPED AS PER BAR LAP CHARTS.  
 REINFORCING STEEL SHALL BE EPOXY COATED AS NOTED WITH AN EP IN THE PLANS.
- STRUCTURAL STEEL:** NEW STRUCTURAL STEEL SHALL CONFORM TO A709, GRADE 50, INCLUDING THE ADDITIONAL REQUIREMENTS FOR CHARPY V-NOTCH TESTING OF M270, FOR PRIMARY LOAD CARRYING MEMBERS. REFER TO SECTION 909.01.

**NOTE:**  
 EXISTING TREES WITHIN THE LIMIT OF DISTURBANCE WILL BE REMOVED TO PERFORM CONSTRUCTION. REFER TO DWG. NOS. L-1.5 AND L-1.6 FOR DETAILS.

WORKING POINT DATA				
MARK	STATION	OFFSET	NORTHING	EASTING
W.P.-1.0	522+88.41	49.99' RT.	574,170.2520	1,231,604.5600
W.P.-2.0	522+88.83	25.99' RT.	574,151.4458	1,231,589.6494
W.P.-3.0	523+80.21	25.99' RT.	574,207.6598	1,231,518.7486
W.P.-4.0	523+80.56	45.98' RT.	574,223.3517	1,231,531.1741



#### NOTES:

- FOR GEOMETRIC AND FOOTING LAYOUT, SEE DRAWING RW2-2.
- FOR RETAINING WALL TYPICAL SECTION, SEE DRAWING RW2-3.



#### UPDATED 90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL  
 NAVD 88 VERTICAL

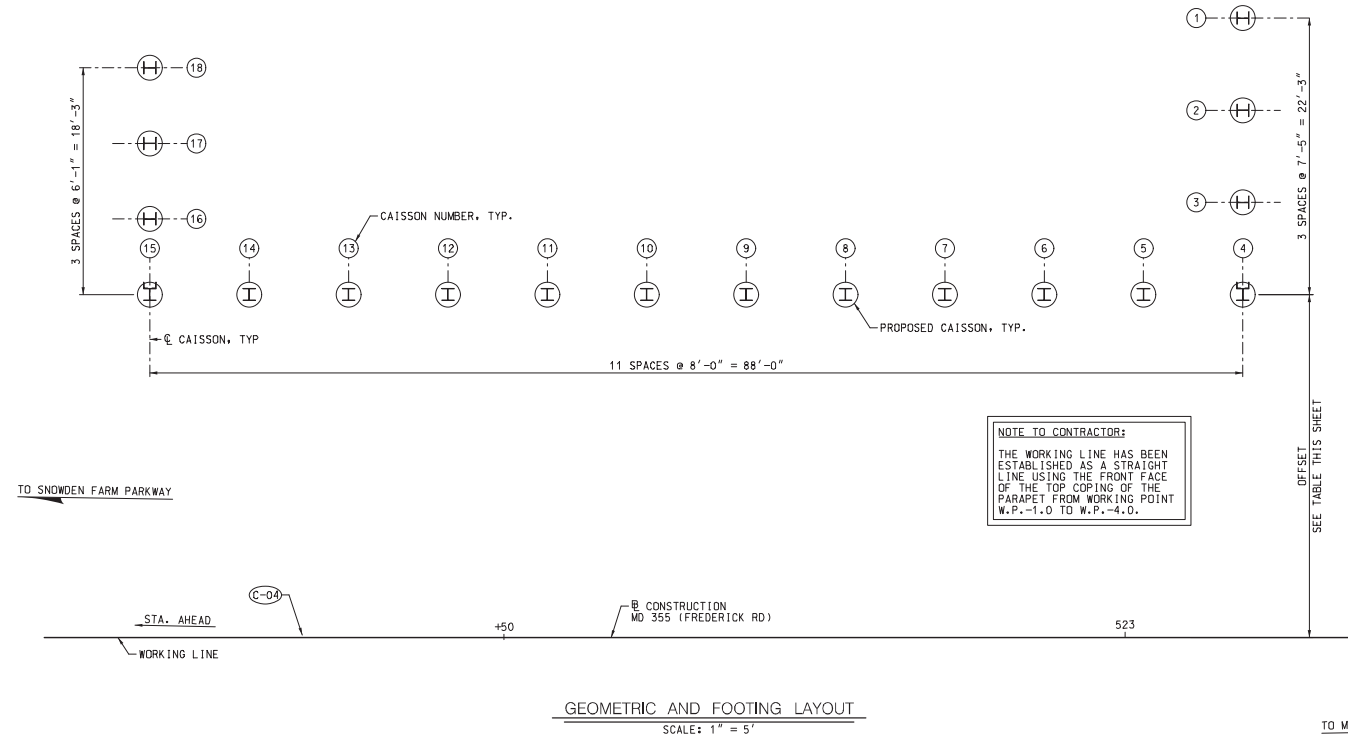
NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878			
RECOMMENDED FOR APPROVAL			
CHM, Design Section	Date		
APPROVED			
Chief, Division of Engineering Services	Date		
Designed by: M.E.P.	Drawn by: C.N.W.	Checked by: D.A.L.	

#### RETAINING WALL 2 GENERAL PLAN AND ELEVATION MD 355 - CLARKSBURG SHARED USE PATH

SCALE: AS NOTED 08/2020  
 Project No.: C.J.P. PR. # 301744 SHEET 84 of 88

NOTE:  
ORIENTATION OF THIS  
VIEW DOES NOT MATCH  
THE ORIENTATION OF  
THE HIGHWAY PLANS.



CAISSON SCHEDULE					
CAISSON NUMBER	STATION	OFFSET	WALL SECTION	TOP OF CAISSON ELEV.	BOTTOM OF CAISSON ELEV.
1	522+89.69	49.50 RT.	HP12x53	656.50	644.50
2	522+89.81	42.09 RT.	HP12x53	656.50	644.50
3	522+89.94	34.67 RT.	HP12x53	656.50	644.50
4	522+90.06	27.25 RT.	HP12x53	653.50	641.50
5	522+98.15	27.37 RT.	HP12x53	653.50	641.50
6	523+06.23	27.47 RT.	HP12x53	653.50	641.50
7	523+14.31	27.54 RT.	HP12x53	651.50	639.50
8	523+22.40	27.59 RT.	HP12x53	651.50	639.50
9	523+30.48	27.62 RT.	HP12x53	651.50	639.50
10	523+38.56	27.62 RT.	HP12x53	651.50	639.50
11	523+46.65	27.59 RT.	HP12x53	649.50	637.50
12	523+54.73	27.54 RT.	HP12x53	649.50	637.50
13	523+62.82	27.47 RT.	HP12x53	649.50	637.50
14	523+70.90	27.37 RT.	HP12x53	649.50	637.50
15	523+78.98	27.25 RT.	HP12x53	649.50	637.50
16	523+79.11	33.33 RT.	HP12x53	652.00	640.00
17	523+79.24	39.42 RT.	HP12x53	652.00	640.00
18	523+79.38	45.50 RT.	HP12x53	652.00	640.00

#### CAISSON INSTALLATION NOTES:

- EXCAVATED SHAFTS FOR CAISSONS BY AUGURING TO A MINIMUM EMBEDMENT OF 12'-0", WITH A MINIMUM ROCK SOCKET OF 5'-0". SEE SECTION ON SHEET RW1-3. ROCK SHALL BE DEFINED AS MATERIAL THAT CAN NOT BE DRILLED WITH A CME 75 DRILL RIG (OR EQUIVALENT) AND HOLLOW STEM AUGERS. WHEN ROCK IS ENCOUNTERED, CORE-DRILLING PROCEDURES WILL BE REQUIRED.
- INSTALL STEEL CASINGS AS EXCAVATION PROCEEDS. CASINGS SHALL BE FULL LENGTH AND WATER TIGHT AND SHALL BE SUFFICIENT TO WITHSTAND ALL STRESSES AND MAINTAIN THE SHAFT WALLS.
- WITHDRAW CASINGS PROGRESSIVELY AS CONCRETE IS PLACED.
- HOLES FOR SUCCESSIVE DRILLED SHAFTS SHALL NOT BE EXCAVATED UNTIL ADJACENT SHAFTS ARE FILLED WITH CONCRETE AND ALLOWED TO SET.
- DRILLED SHAFT TOLERANCES SHALL BE IN ACCORDANCE WITH SECTION 412.

NOTE:  
FOR GENERAL PLAN AND  
ELEVATION, SEE DRAWING RW2-1

RW2-2



#### UPDATED 90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY



MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

#### RECOMMENDED FOR APPROVAL

CHM, Design Section

APPROVED

CHM, Division of Engineering Services

Desigined by : M.E.P. Drawn by : C.N.W. Checked by : D.A.L.

Date

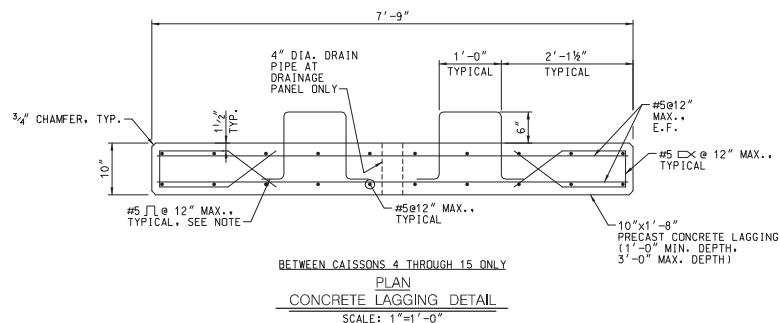
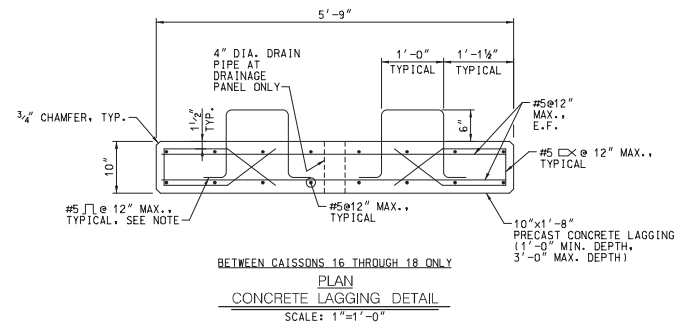
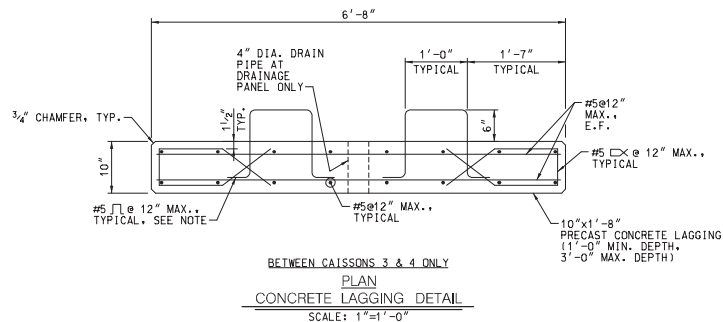
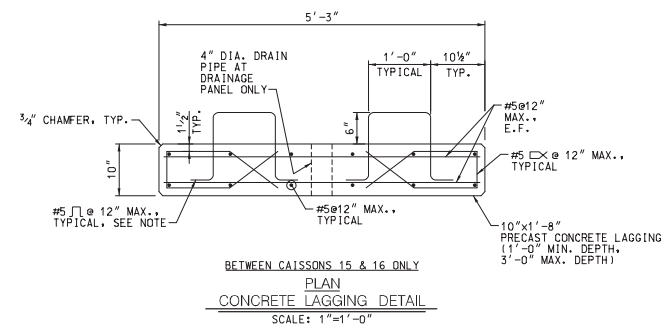
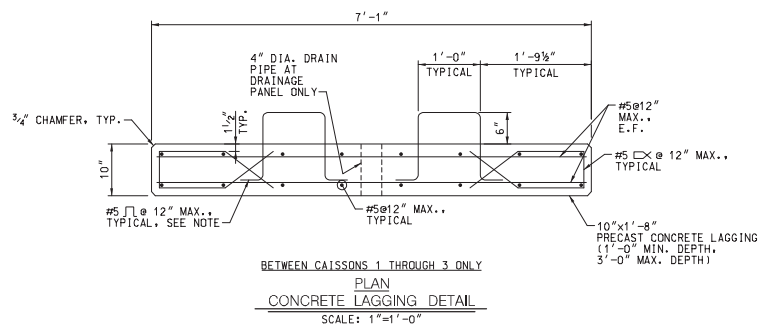
Date

#### RETAINING WALL 2 GEOMETRIC AND FOOTING LAYOUT MD 355 - CLARKSBURG SHARED USE PATH

SCALE: AS NOTED  
Project No.: C.I.P. PR. # S01744 SHEET 85 of 88







NOTE:  
STIRRUPS SHALL NOT BE USED  
IN LAGGING AT CONTRACTION AND  
EXPANSION JOINT LOCATIONS.

# UPDATED 90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL			
NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878	
RECOMMENDED FOR APPROVAL	
CHM, Design Section	Date
APPROVED	
CHM, Division of Engineering Services	Date
Designed by: M.E.P.	Drawn by: C.N.W.
Checked by: D.A.L.	

## RETAINING WALL 2 PRECAST LAGGING DETAILS MD 355 - CLARKSBURG SHARED USE PATH

Project No.: C.I.P. PR. # 301744 SHEET 87 of 88 08/2020

DATUM EL. 620.00

BORING FB-6

DATUM EL. 620.00

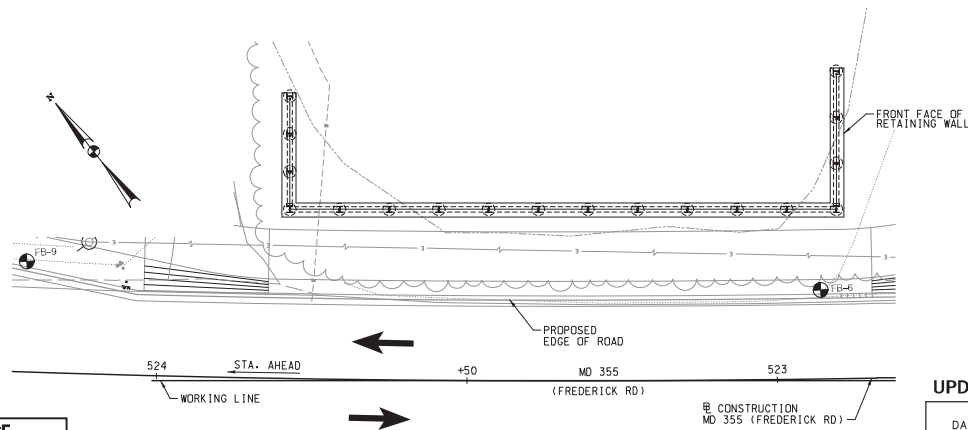
BORING FB-9

DATUM EL. 620.00

DATUM EL. 620.00

## BORINGS AND DRIVE TESTS

SCALE: 1" = 5'



BORING LOCATION DATA					
BORING NUMBER	STATION	OFFSET	NORTHING	EASTING	DEPTH (FT.)
FB-6	522+28.83	14.33' RT.	574,144.6029	1,231,579.4088	25.00
FB-9	524+21.47	17.84' RT.	574,227.6146	1,231,482.1133	25.00

RW2-5

 **WALLACE  
MONTGOMERY**  
ENGINEERS • PLANNERS • SURVEYORS • CONSTRUCTION MANAGERS  
10150 York Road, Suite 200  
Hunt Valley, Maryland 21030  
410.494.5093 Tel / 410.667.0925 Fax  
[www.wallaceformontgomery.com](http://www.wallaceformontgomery.com) *A Limited Liability Partnership*

## BORING LOCATION PLAN

SCALE: 1" = 10'

**UPDATED 90% SUBMITTAL**

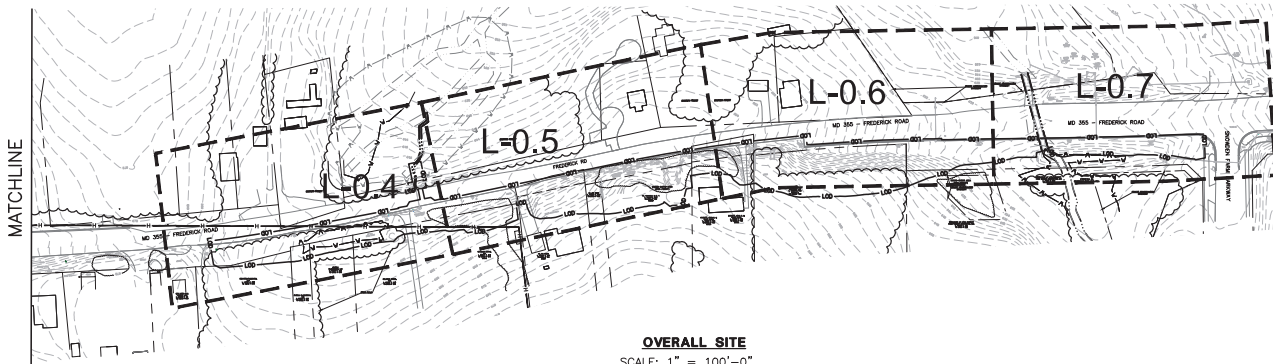
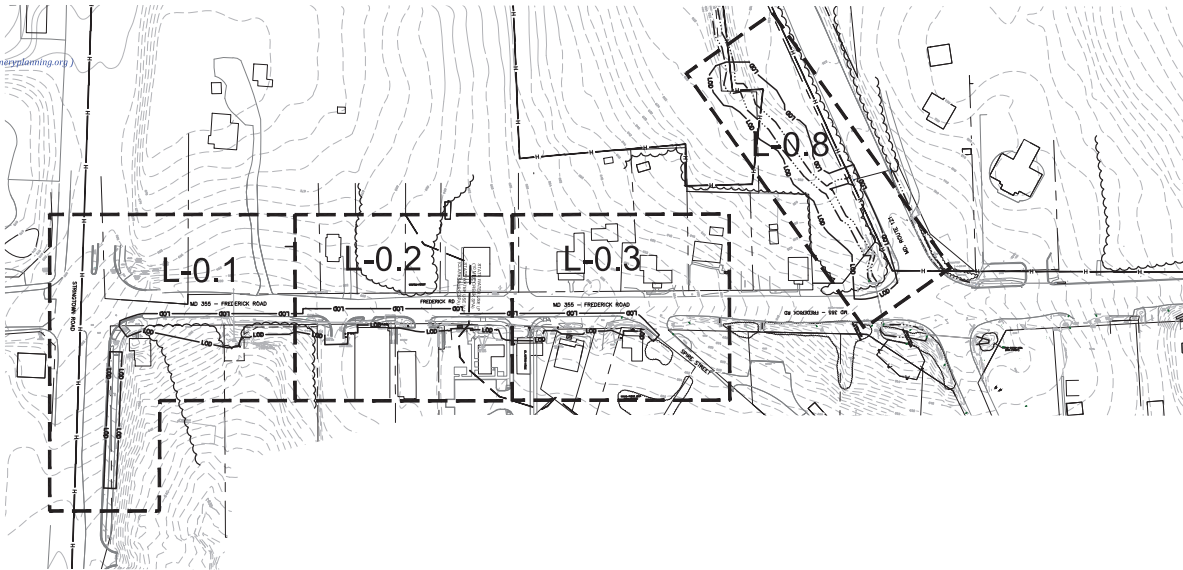
DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL				RECOMMENDED FOR APPROVAL  Chief, Design Section _____ Date _____ APPROVED Chief, Division of Engineering Services _____ Date _____			
NO.	REVISION	DATE	BY	Designed by : M.E.P.		Drawn by : C.N.W.	Checked by : D.A.L.

**BORING LOCATION PLAN**  
**MD 355 - CLARKSBURG**  
**SHARED USE PATH**

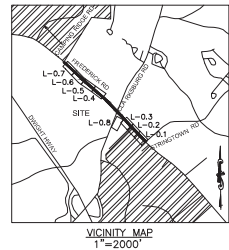
SCALE: AS NOTED	08/2020
Project No. : C.I.P. PR. # 501744	SHEET 88 of 88



MONTGOMERY PLANNING DEPARTMENT  
**APPROVED - 420182000**  
 Katherine Nelson / katherine.nelson@montgomeryplanning.org  
 02/08/19



**OVERALL SITE**  
 SCALE: 1" = 100'-0"



- LEGEND**
- L-0 — L-0 — PROPOSED LIMITS OF DISTURBANCE
  - — — — — PROPERTY BOUNDARY
  - ~~~~~ EXISTING FOREST AREA
  - ~~~~~ EXISTING SCRUB-SHRUB AREA
  - ~~~~~ EXISTING FIELD DELINEATED STREAM
  - ~~~~~ EXISTING FIELD DELINEATED WETLAND
  - — — — — STREAM BOUNDARY PROVIDED BY M-NCPPC BASED ON 10-MILE CREEK PLAN (DATED 2014)
  - ~~~~~ WETLAND BOUNDARY PROVIDED BY M-NCPPC BASED ON 10-MILE CREEK PLAN (DATED 2014)
  - H — H — HISTORIC DISTRICT
  - — — — — STATE WATER USE (SPA) DIVIDE LINE
  - — — — — FOREST CONSERVATION EASEMENT



**CERTIFICATION OF QUALIFIED PROFESSIONAL**  
 I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MNCPPC AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

11.30.18  
 DATE

*Michael A. Norton*  
 MICHAEL A. NORTON  
 MONTGOMERY COUNTY  
 QUALIFIED PROFESSIONAL

**WALLACE MONTGOMERY**  
 PLANNING + DESIGN  
 1000 Rock Road, Suite 200  
 Rockville, Maryland 20850  
 Phone: 301.582.1800 Fax: 301.582.1802  
 www.wallacemontgomery.com

**NORTON LAND DESIGN**  
 LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING  
 5140 DORSEY HALL DRIVE, 2ND FLOOR ELLICOTT CITY, MD 21042  
 BALT. 443.542.8199 X101 DC 240.342.2329x101 WWW.NORTONLANDDESIGN.COM

WATER CLASS	LPIV,P	WATERSHED	LITTLE SENECA CREEK	TEMA FLOODPLAIN MAP PANEL	24031C 0160D
TRIBUTARY	ROCK CREEK				
TAX MAP	EW341,EW121	200 SHEET	233NW13	ADC MAP	B-3
		233NW13	233NW14	233NW15	233NW16
SCALE	AS SHOWN	DATE	NOVEMBER 2018	PROJ. NO.	15-138
				SHEET NO.	L-0.1A

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878			
DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL			
NO.	REVISION	DATE	BY

**PLAN SHEET L-0.1A**  
**NRI/FSD OVERALL PLAN**  
**MD 355 - CLARKSBURG**  
**SHARED USE PATH**  
**NO. 420182000**

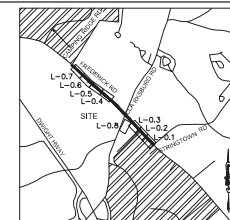
Project No.: C.L.P. PK. # 502744 SHEET 60 of 96


**MONTGOMERY PLANNING DEPARTMENT**  
**APPROVED - 420182000**  
 Katherine Nelson / katherine.nelson@montgomeryplanning.org  
 02/08/19














STRINGTOWN ROAD

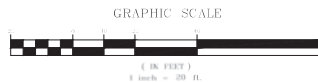
MD 355 - FREDERICK ROAD

MATCHLINE SHEET L-0.2



# LEGEND

- 
 #1 26" RED OAK  
 EXISTING SIGNIFICANT TREE >24" AND <30" DBH AND CRITICAL ROOT ZONE
  - 
 #2 32" RED OAK  
 EXISTING SPECIMEN TREE >30" DBH\* OR >6" WITHIN HISTORIC DISTRICT AND CRITICAL ROOT ZONE
  - 
 SOIL BOUNDARY
  - 
 LOD  
 PROPOSED LIMITS OF DISTURBANCE
  - 
 1" SURVEY TOPO  
 2" MNCPPC TOPO  
 LIMITS OF SURVEY
  - 
 MODERATE SLOPES 15% - 25%
  - 
 STEEP SLOPES ≥ 25%
  - 
 PROPERTY BOUNDARY
  - 
 EXISTING FOREST AREA
  - 
 EXISTING SCRUB-SHRUB AREA
  - 
 1A  
 FOREST SAMPLE PLOT
  - 
 HISTORIC DISTRICT
  - 
 TEMPORARY EASEMENT
- \* EXISTING TREE >1" WITHIN HISTORIC DISTRICT WILL BE DELINEATED DURING FOREST CONSERVATION PLAN



## CERTIFICATION OF QUALIFIED PROFESSIONAL

I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON WAS PREPARED IN ACCORDANCE WITH MARYLAND STATE, MNCPPC AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

11.30.18  
DATE

  
 MICHAEL A. NORTON  
 MONITOR / COMAR 08.19.06.01  
 QUALIFIED PROFESSIONAL

**NORTON LAND DESIGN**  
 LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING  
 5140 DORSEY HALL DRIVE, 2ND FLOOR ELLICOTT CITY, MD 21042  
 BALT. 443.542.9199 X101 DC 240.342.2329 X101 WWW.NORTONLANDDESIGN.COM

WATER CLASS	L/P/IV,P	WATERSHED	LITTLE SENECA CREEK	TEMA FLOODPLAIN	MAP PANEL
TRIBUTARY	ROCK CREEK				24031C 0160D
TAX MAP	EW341,EW121	200' SHEET	233NW13	ADC MAP	GRID B-3
		233NW13	233NW12	233NW14	233NW15
SCALE	AS SHOWN	DATE	NOVEMBER 2018	PROJ. NO.	15-138
				SHEET NO.	L-0.1

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL			
NO.	REVISION	DATE	BY

MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 100 EDISON PARK DRIVE, 4TH FLOOR  
 GAITHERSBURG, MD 20878

Designed by : S.K.L. Drawn by : H.J. Checked by : M.N.

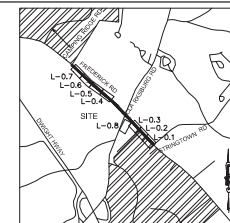
**PLAN SHEET L-0.1**  
**NRI/FSD PLAN**  
**MD 355 - CLARKSBURG**  
**SHARED USE PATH**  
**NO. 420182000**

Project No. : C.L.P. PK. # 502744 SHEET 61 of 96

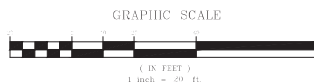
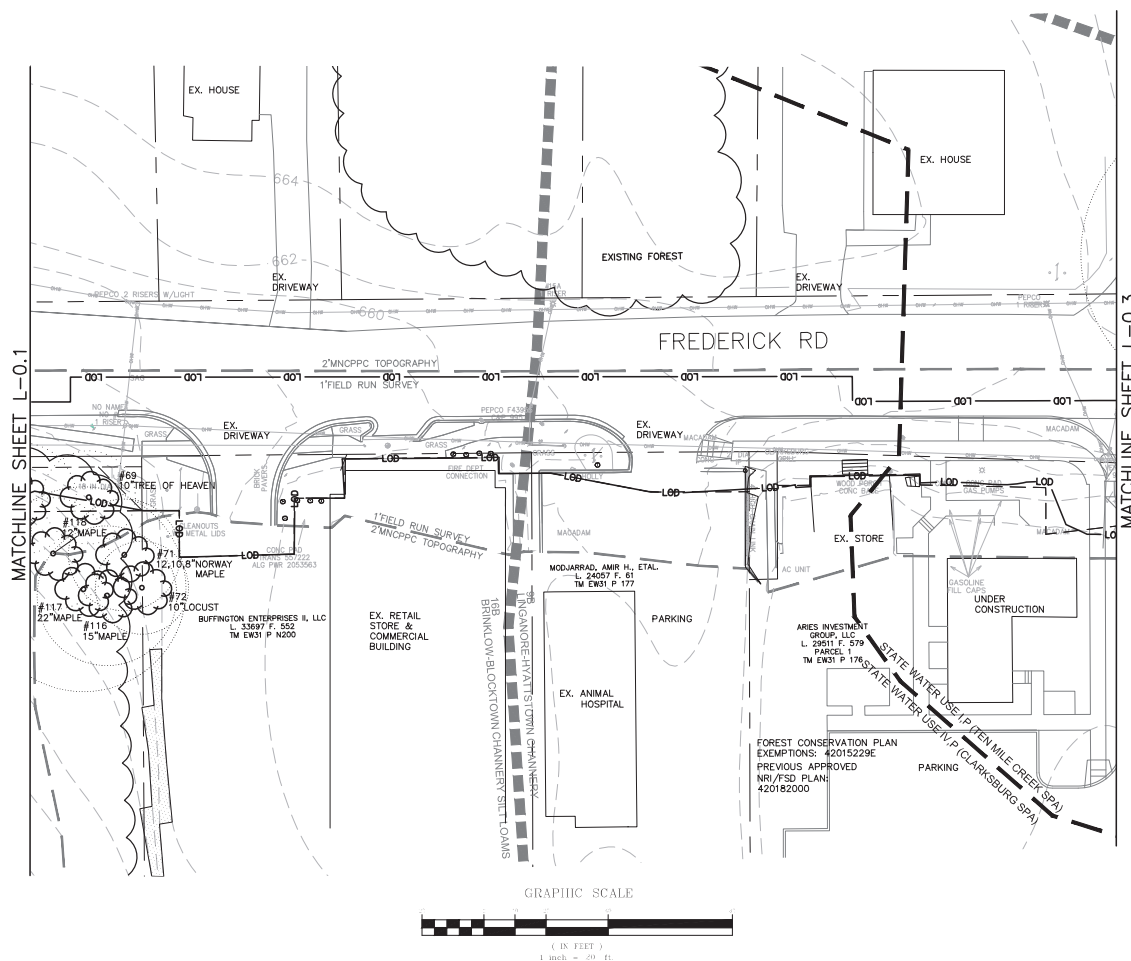

**WALLACE MONTGOMERY**  
 Landscape Planning + Site Design  
 10000 Rock Road, Suite 200  
 Rockville, Maryland 20850  
 Phone: 301.583.1000 Fax: 301.583.1005



MONTGOMERY PLANNING DEPARTMENT  
APPROVED - 420182000  
Katherine Nelson / katherine.nelson@montgomeryplanning.org  
02/08/19



VICINITY MAP  
1"=2000'



- LEGEND**
- #1 26" RED OAK: EXISTING SIGNIFICANT TREE >24" AND <30" DBH AND CRITICAL ROOT ZONE
  - #2 32" RED OAK: EXISTING SPECIMEN TREE >30" DBH \* OR >6" WITHIN HISTORIC DISTRICT AND CRITICAL ROOT ZONE
  - 16D ZUB: SOIL BOUNDARY
  - LOD: PROPOSED LIMITS OF DISTURBANCE
  - 1" SURVEY TOPO, 2" MNCPPC TOPO: LIMITS OF SURVEY
  - MODERATE SLOPES 15% - 25%
  - STEEP SLOPES ≥ 25%
  - PROPERTY BOUNDARY
  - EXISTING FOREST AREA
  - STATE WATER USE (P), STATE WATER USE (V/P): STATE WATER USE (SPA) DIVIDE LINE
  - TEMPORARY EASEMENT

\* EXISTING TREE >1" WITHIN HISTORIC DISTRICT WILL BE DELINEATED DURING FOREST CONSERVATION PLAN

**CERTIFICATION OF QUALIFIED PROFESSIONAL**

I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MNCPPC AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

11.30.18  
DATE

MONTGOMERY  
MICHAEL A. NORTON  
MONTGOMERY COUNTY REGISTERED PROFESSIONAL  
11/2018



NORTON LAND DESIGN			
LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING			
5149 DORSEY HALL DRIVE, 2ND FLOOR ELlicott CITY, MD 21042			
BALT. 443.542.9199 x101 DC 203.342.2329 x101 WWW.NORTONLANDDESIGN.COM			
WATER CLASS	I/P, IV, P	WATERSHED	LITTLE SENECA CREEK
TRIBUTARY	ROCK CREEK	MAP PANEL	24031C 01600
TAX MAP	EW341.EW121	200' SPLIT	2329W13
SCALE	AS SHOWN	DATE	NOVEMBER 2018
PROJ. NO.	15-138	SHEET NO.	L-0.2

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

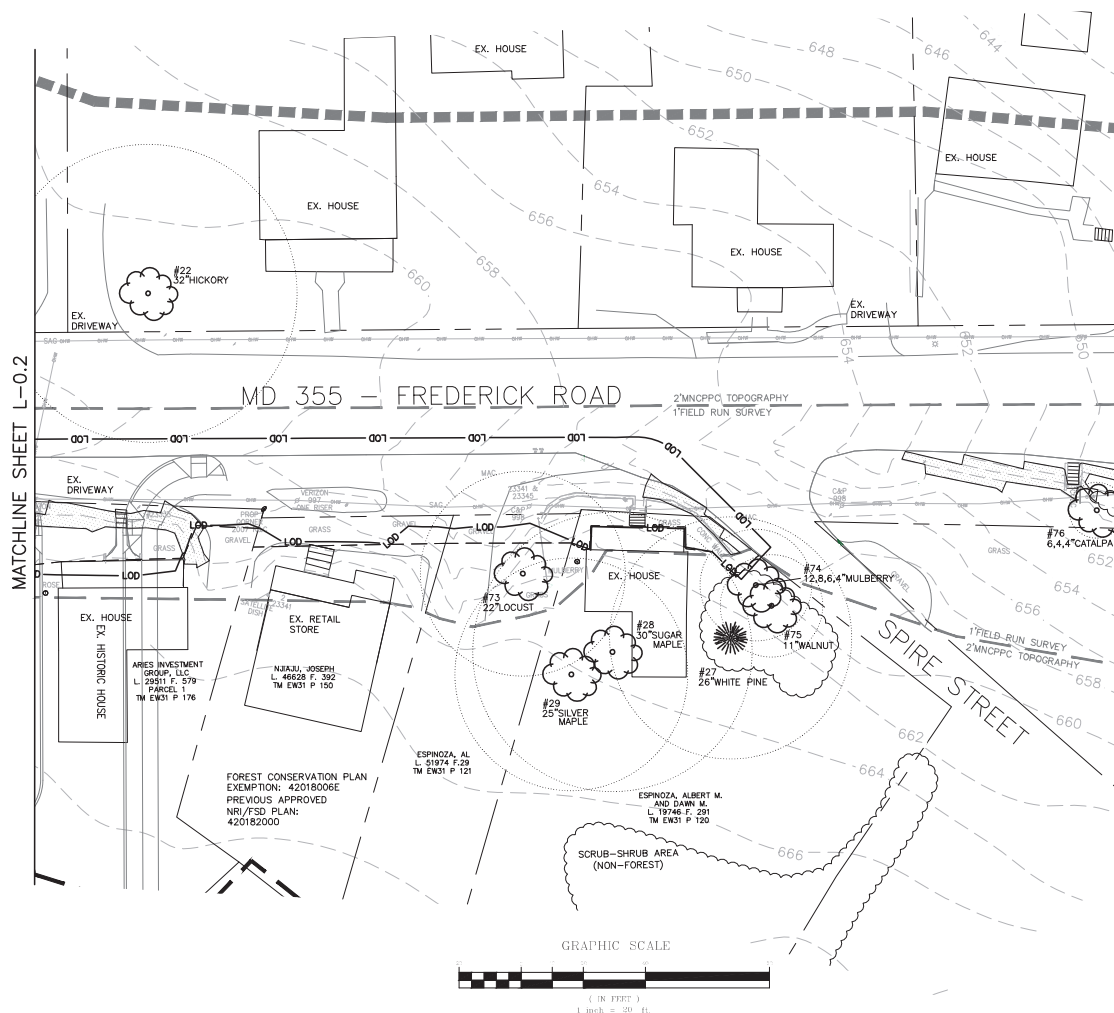
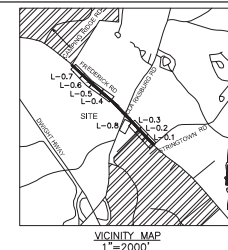
Designed by: S.K.L. Drawn by: H.J. Checked by: M.N.

**PLAN SHEET L-0.2  
NRI/FSD PLAN**

**MD 355 - CLARKSBURG  
SHARED USE PATH  
NO. 420182000**

Project No.: C.L.P. # 502744 SHEET 62 of 96





- LEGEND**
- #1 26" RED OAK EXISTING SIGNIFICANT TREE ≥24" AND <30" DBH AND CRITICAL ROOT ZONE
  - #2 32" RED OAK EXISTING SPECIMEN TREE ≥30" DBH \* OR >6" WITHIN HISTORIC DISTRICT AND CRITICAL ROOT ZONE
  - SOIL BOUNDARY
  - PROPOSED LIMITS OF DISTURBANCE
  - 1 SURVEY TOPO 2 MNCPPC TOPO LIMITS OF SURVEY
  - MODERATE SLOPES 15% - 25%
  - STEEP SLOPES ≥ 25%
  - PROPERTY BOUNDARY
  - EXISTING FOREST AREA
  - EXISTING SCRUB-SHRUB AREA
  - TEMPORARY EASEMENT
- \* EXISTING TREE >1" WITHIN HISTORIC DISTRICT WILL BE DELINEATED DURING FOREST CONSERVATION PLAN

**CERTIFICATION OF QUALIFIED PROFESSIONAL**

I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MNCPPC AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

11.30.18  
 DATE

*Michael A. Norton*  
 MICHAEL A. NORTON  
 MONTGOMERY COUNTY REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT  
 QUALIFIED PROFESSIONAL

<b>NORTON LAND DESIGN</b> LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING 5148 DORSEY HALL DRIVE, 2ND FLOOR ELICOTT CITY, MD 21042 BALT. 443.542.9199 FAX 410.243.2329/101 WWW.NORTONLANDDESIGN.COM			
WATER CLASS I, P, IV, P	WATERSHED LITTLE SEMECA CREEK	IRMA FLOODPLAIN MAP PANEL # 24031C 0160D	
TRIBUTARY ROCK CREEK			
TAX MAP EW341, EW121	200 SHEET 2531NW13	ADC MAP PAGE 9	GRID 8-3.4
SCALE AS SHOWN	DATE NOVEMBER 2018	PROJ. NO. 15-138	SHEET NO. L-0.3

DATUM: NAD 83/91 HORIZONTAL  
 NAVD 88 VERTICAL

NO. REVISION DATE BY

MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 100 EDISON PARK DRIVE, 4TH FLOOR  
 GAITHERSBURG, MD 20878

Designed by: S.K.L. Drawn by: H.J. Checked by: M.N.

**PLAN SHEET L-0.3**  
**NRI/FSD PLAN**

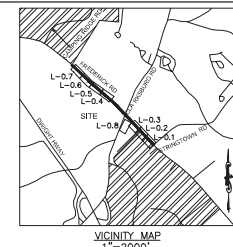
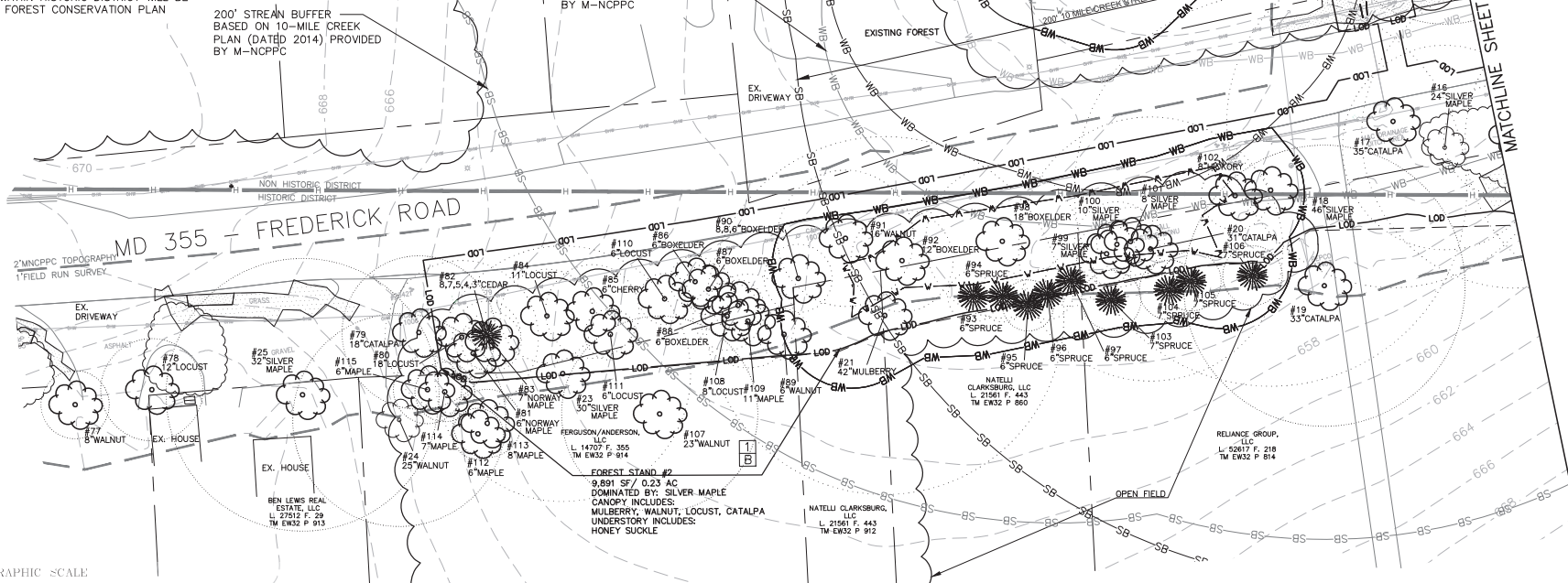
**MD 355 - CLARKSBURG**  
**SHARED USE PATH**  
**NO. 420182000**

Project No.: C.L.P. PK # 502744 SHEET 63 of 96



- LEGEND**
- EXISTING SIGNIFICANT TREE >24" AND <30" DBH AND CRITICAL ROOT ZONE
  - EXISTING SPECIMEN TREE >30" DBH \* OR >6" WITHIN HISTORIC DISTRICT AND CRITICAL ROOT ZONE
  - SOIL BOUNDARY
  - PROPOSED LIMITS OF DISTURBANCE
  - LIMITS OF SURVEY
  - MODERATE SLOPES 15% - 25%
  - STEEP SLOPES ≥ 25%
  - PROPERTY BOUNDARY
  - EXISTING FOREST AREA
  - EXISTING SCRUB-SHRUB AREA
  - FOREST SAMPLE PLOT
  - TEMPORARY EASEMENT
  - HISTORIC DISTRICT

\* EXISTING TREE >1" WITHIN HISTORIC DISTRICT WILL BE DELINEATED DURING FOREST CONSERVATION PLAN



**CERTIFICATION OF QUALIFIED PROFESSIONAL**  
I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MNP&C AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

11.30.18  
DATE

MICHAEL A. NORTON  
MONTGOMERY COUNTY REGISTERED PROFESSIONAL  
QUALIFIED PROFESSIONAL

**NORTON LAND DESIGN**  
LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING  
6140 DORSEY HALL DRIVE, 2ND FLOOR  
BETHESDA, MD 20814  
WWW.NORTONLANDDESIGN.COM

WATER CLASS	1P/IV.P	WATERBOD	SMALL POND
TRIBUTARY	ROCK CREEK	LITTLE SENECA CREEK	MAP PANEL 1
TAX MAP	EW341,EW121	200' BUFFER	24031C 01600
SCALE	AS SHOWN	DATE	NOVEMBER 2018
PROJ. NO.	15-138	SHEET NO.	L-0.4

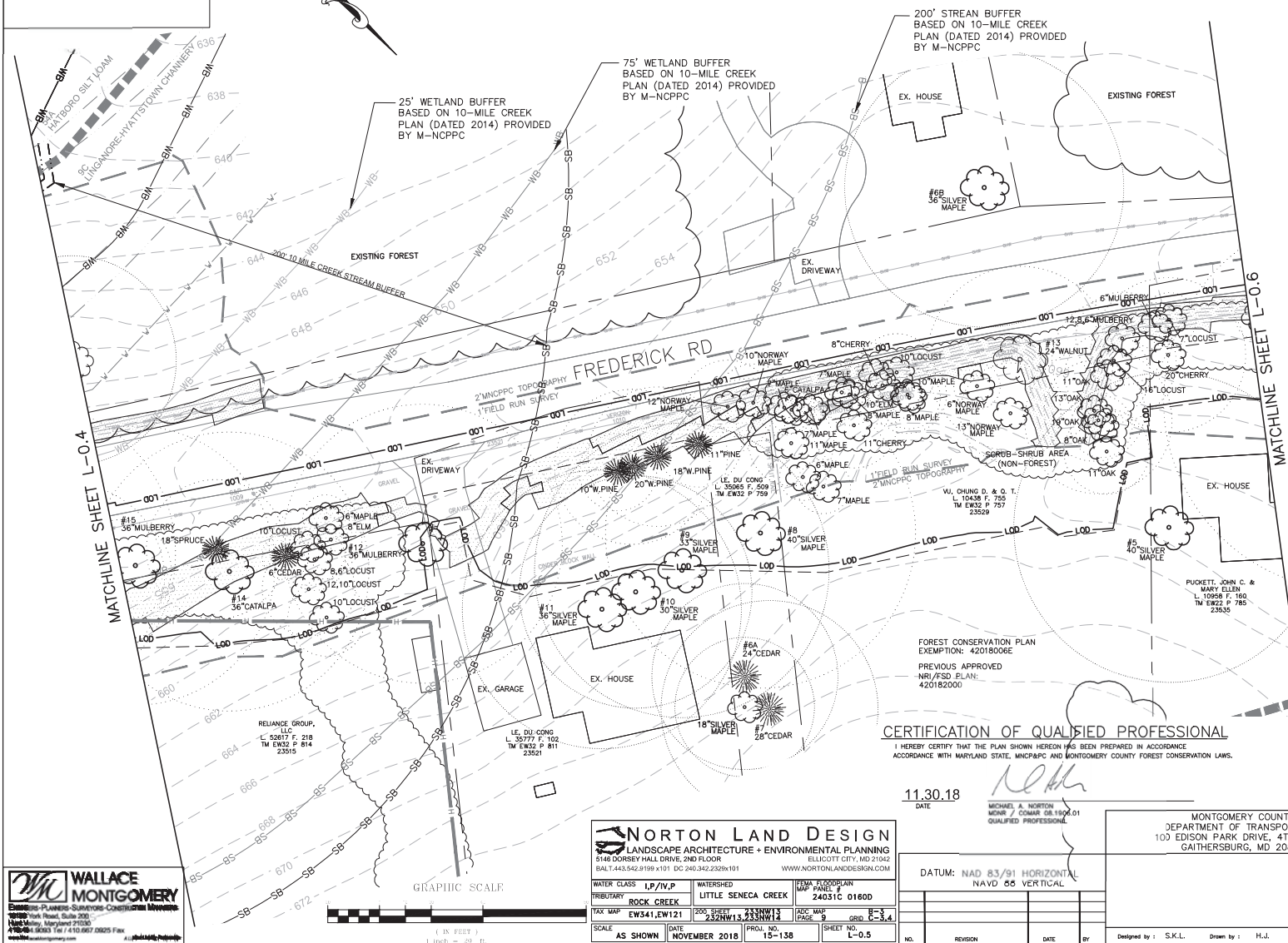
DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL			

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

Designed by: S.K.L. Drawn by: H.J. Checked by: M.N.

**PLAN SHEET L-0.4**  
**NRI/FSD PLAN**  
**MD 355 - CLARKSBURG**  
**SHARED USE PATH**  
**NO. 420182000**

Project No.: C.L.P. # 502744 SHEET 64 of 96



**LEGEND**

SCALE  
1" = 200'

EXISTING TREE >6" AND <24" DBH  
AND CRITICAL ROOT ZONE

EXISTING SIGNIFICANT TREE >24"  
AND <30" DBH AND CRITICAL ROOT ZONE

EXISTING SPECIMEN TREE >30" DBH  
OR >6" AND CRITICAL ROOT ZONE

SOIL BOUNDARY

PROPOSED LIMITS OF DISTURBANCE

LIMITS OF SURVEY

MODERATE SLOPES 15% - 25%

STEEP SLOPES ≥ 25%

PROPERTY BOUNDARY

EXISTING FOREST AREA

EXISTING SCRUB-SHRUB AREA

FOREST SAMPLE PLOT

HISTORIC DISTRICT

TEMPORARY EASEMENT

EXISTING FIELD DELINEATED STREAM

200' TO 10 MILE CREEK SPA STREAM BUFFER  
BASED ON FIELD DELINEATED STREAM

EXISTING FIELD DELINEATED WETLAND

25' STATE REGULATED WETLAND BUFFER  
BASED ON FIELD DELINEATED WETLAND

75' TO 10 MILE CREEK SPA WETLAND BUFFER  
BASED ON FIELD DELINEATED WETLAND

WETLAND BOUNDARY PROVIDED BY  
M-NCPPC BASED ON 10-MILE CREEK  
PLAN (DATED 2014)

25' STATE REGULATED WETLAND BUFFER  
BASED ON M-NCPPC RESOURCE

75' TO 10 MILE CREEK SPA WETLAND BUFFER  
BASED ON M-NCPPC RESOURCE

STREAM BOUNDARY PROVIDED BY  
M-NCPPC BASED ON 10-MILE CREEK  
PLAN (DATED 2014)

200' TO 10 MILE CREEK SPA  
STREAM BUFFER BASED ON  
M-NCPPC RESOURCE

 <b>NORTON LAND DESIGN</b>									
<b>LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING</b> 5148 DORSEY HILL DRIVE, 2ND FLOOR BAL. 743.542.9199 x101    240.342.2329 x101					ELLICOTT CITY, MD 21042 <a href="http://WWW.NORTONLANDDESIGN.COM">WWW.NORTONLANDDESIGN.COM</a>				
WATER CLASS		I,P,V,I,P		WATER SCHED		FEMA FLOODPLAIN		MAP PANEL	
TRIBUTARY		ROCK CREEK		LITTLE SENECA CREEK		24031C 0160D			
TAX MAP		EW3K1,EW121		200C SHEET 23SW121,23SW13		ADC MAP PAGE		8-3 8-3-4	
SCALE		DATE		PROJ. NO.		SHEET NO.		L.O.-5	
AS SHOWN		NOVEMBER 18		15-138					

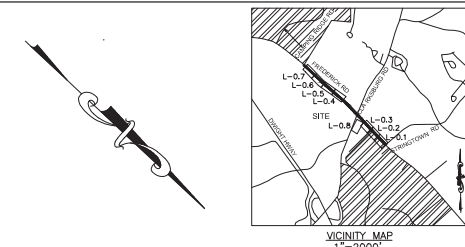
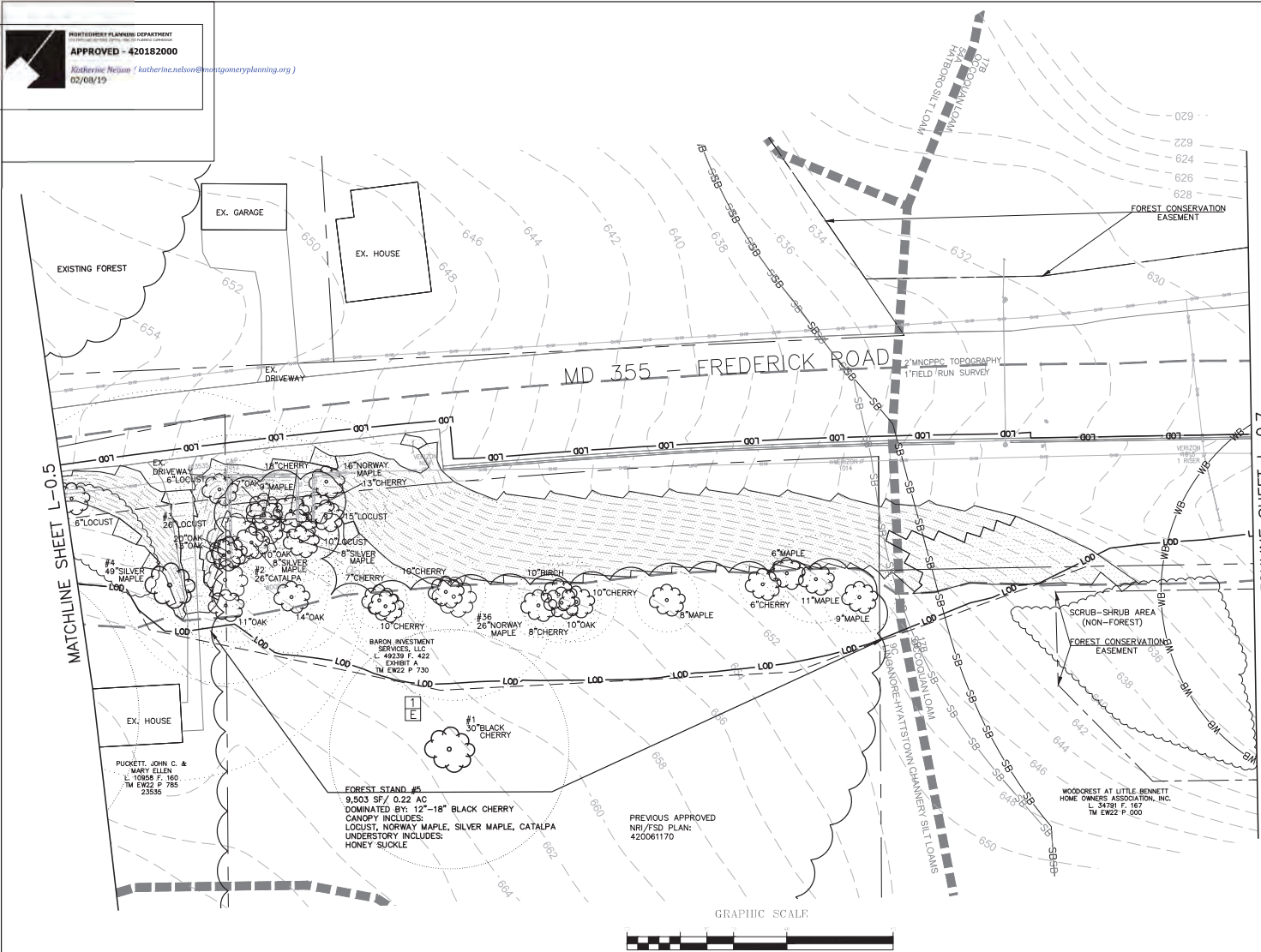
QUALIFIED PROFESSIONAL _____ DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL			
NO.	REVISION	DATE	BY

[illegible]

<p>PLAN SHEET L-0.5 NRI/FSD PLAN</p> <p>MD 355 - CLARKSBURG SHARED USE PATH NO. 420182000</p>				11/2018
Project No. :	C.L.P. PR. # 502744	SHEET	65	of 96



MONTGOMERY PLANNING DEPARTMENT  
**APPROVED - 420182000**  
 Katherine Nelson / katherine.nelson@montgomeryplanning.org  
 02/08/19



- LEGEND**
- EXISTING TREE >6" AND <24"DBH AND CRITICAL ROOT ZONE
  - 14"RED OAK
  - EXISTING SIGNIFICANT TREE >24" AND <30"DBH AND CRITICAL ROOT ZONE
  - #1 26"RED OAK
  - EXISTING SPECIMEN TREE ≥30"DBH AND CRITICAL ROOT ZONE
  - #2 32"RED OAK
  - 16D 2UB SOIL BOUNDARY
  - PROPOSED LIMITS OF DISTURBANCE
  - 1" SURVEY TOPG 2" MNCPPC TOPOG LIMITS OF SURVEY
  - MODERATE SLOPES 15% - 25%
  - STEEP SLOPES ≥ 25%
  - PROPERTY BOUNDARY
  - EXISTING FOREST AREA
  - EXISTING SCRUB-SHRUB AREA
  - FOREST CONSERVATION EASEMENT
  - TEMPORARY EASEMENT
  - 200' 10 MILE CREEK SPA STREAM BUFFER BASED ON FIELD DELINEATED STREAM
  - 200' 10 MILE CREEK SPA STREAM BUFFER BASED ON M-NCCPC RESOURCE
  - 75' 10 MILE CREEK SPA WETLAND BUFFER BASED ON FIELD DELINEATED WETLAND

**CERTIFICATION OF QUALIFIED PROFESSIONAL**  
 I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MNCPPC AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

11.30.18  
 DATE  
 MICHAEL A. NORTON  
 MDR / COMAR 08.19.05.01  
 QUALIFIED PROFESSIONAL

**WALLACE MONTGOMERY**  
 Planning & Landscape Architecture  
 1000 Rock Road, Suite 200  
 Rockville, Maryland 20850  
 Phone: 301.983.1800 Fax: 301.987.0825  
 www.wallacemontgomery.com

**NORTON LAND DESIGN**  
 LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING  
 5148 CORSEY HALL DRIVE, 2ND FLOOR  
 BALT. 443.542.9199 x101 DC 240.342.2329x101  
 ELICOTT CITY, MD 21942  
 WWW.NORTONLANDDESIGN.COM

WATER CLASS	I.P./IV.P	WATERSHED	LITTLE SENECA CREEK	ITEMA FLOODPLAIN MAP PANEL	24031C 01600
TRIBUTARY	ROCK CREEK				
TAX MAP	EW341,EW121	200' SHEET	233NW13	ARC MAP	9
SCALE	AS SHOWN	DATE	NOVEMBER 2018	PROJ. NO.	15-138
				SHEET NO.	L-0.6

DATUM: NAD 83/91 HORIZONTAL  
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

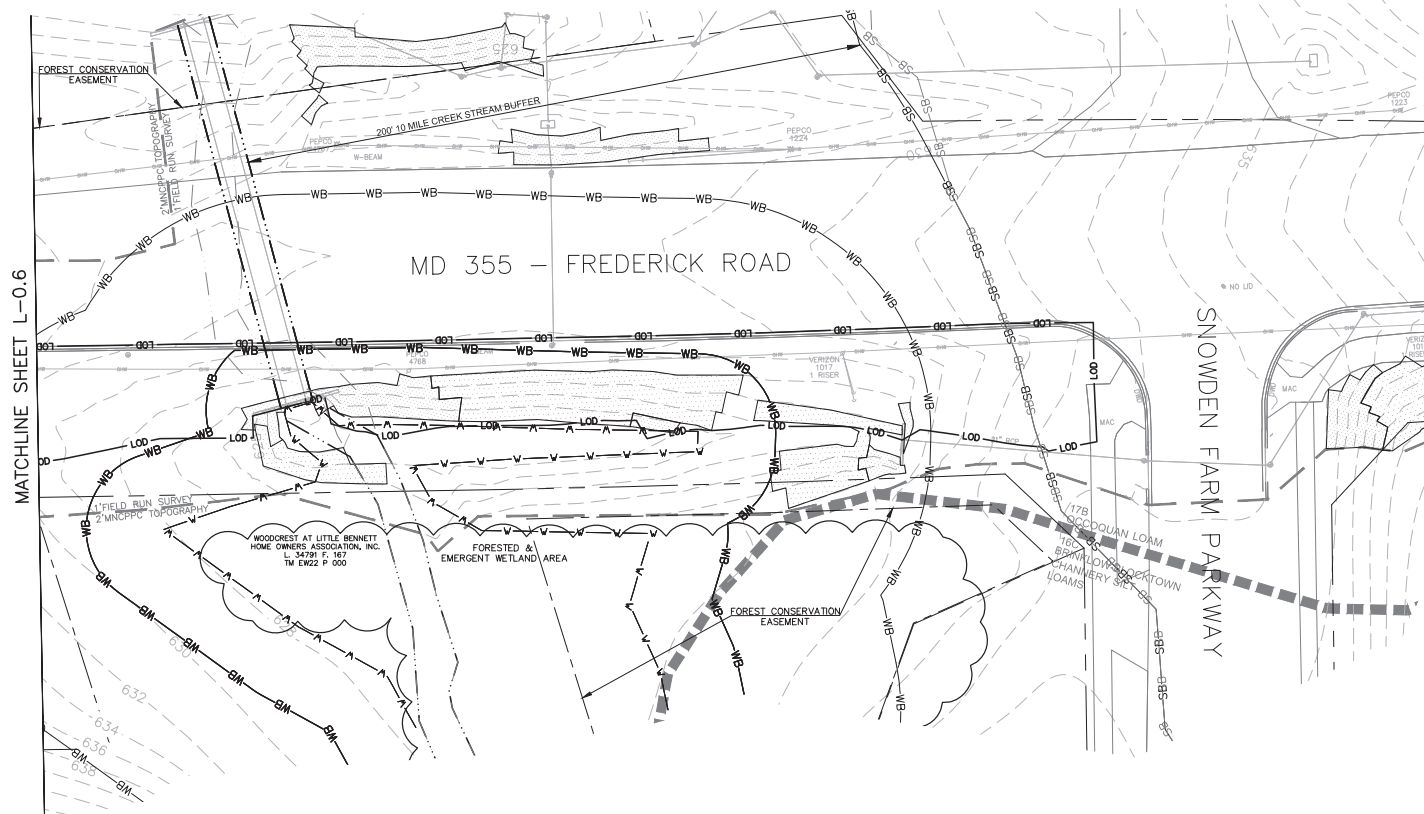
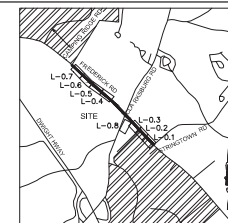
Designed by: S.K.L. Drawn by: H.J. Checked by: M.N.

MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 100 EDISON PARK DRIVE, 4TH FLOOR  
 GAITHERSBURG, MD 20878

**PLAN SHEET L-0.6**  
**NRI/FSD PLAN**

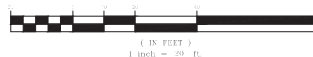
**MD 355 - CLARKSBURG**  
**SHARED USE PATH**  
**NO. 420182000**

Project No.: C.L.P. PK. # 50244 SHEET 66 of 96 11/2018



- LEGEND**
- 100' 200' SOIL BOUNDARY
  - LOB PROPOSED LIMITS OF DISTURBANCE
  - 1" SURVEY TOPO 2" MINNPPC TOPO LIMITS OF SURVEY
  - MODERATE SLOPES 15% - 25%
  - STEEP SLOPES ≥ 25%
  - PROPERTY BOUNDARY
  - EXISTING FOREST AREA
  - EXISTING SCRUB-SHRUB AREA
  - FOREST CONSERVATION EASEMENT
  - TEMPORARY EASEMENT
  - EXISTING FIELD DELINEATED STREAM
  - 200' 10 MILE CREEK SPA STREAM BUFFER BASED ON FIELD DELINEATED STREAM
  - STREAM BOUNDARY PROVIDED BY M-NPPC BASED ON 10-MILE CREEK PLAN (DATED 2014)
  - 200' 10 MILE CREEK SPA STREAM BUFFER BASED ON M-NPPC RESOURCE
  - EXISTING FIELD DELINEATED WETLAND
  - 25' STATE REGULATED WETLAND BUFFER BASED ON FIELD DELINEATED WETLAND
  - 75' 10 MILE CREEK SPA WETLAND BUFFER BASED ON FIELD DELINEATED WETLAND

GRAPHIC SCALE



**CERTIFICATION OF QUALIFIED PROFESSIONAL**

I HEREBY CERTIFY THAT THE PLAN SHOWN HEREIN HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MINNPPC AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

11.30.18  
 DATE

MICHAEL A. NORTON  
 MONTGOMERY COUNTY REGISTERED PROFESSIONAL  
 QUALIFIED PROFESSIONAL

<b>NORTON LAND DESIGN</b> LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING 5148 DORSEY HALL DRIVE, 2ND FLOOR BALTIMORE, MD 21204 TEL: 410.542.9199 FAX: 410.542.2329 WWW.NORTONLANDDESIGN.COM	
WATER CLASS: I/P/IV,P	WATERSHED: LITTLE SENECA CREEK
TRIBUTARY: ROCK CREEK	PROJECT NO: 24031C 0160D
TAX MAP: EW341,EW121	200' SHEET: 233NW13
SCALE: AS SHOWN	DATE: NOVEMBER 2018
PROJ. NO: 15-138	SHEET NO: L-0.7

DATUM: NAD 83/91 HORIZONTAL  
 NAVD 88 VERTICAL

MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 100 EDISON PARK DRIVE, 4TH FLOOR  
 GAITHERSBURG, MD 20878

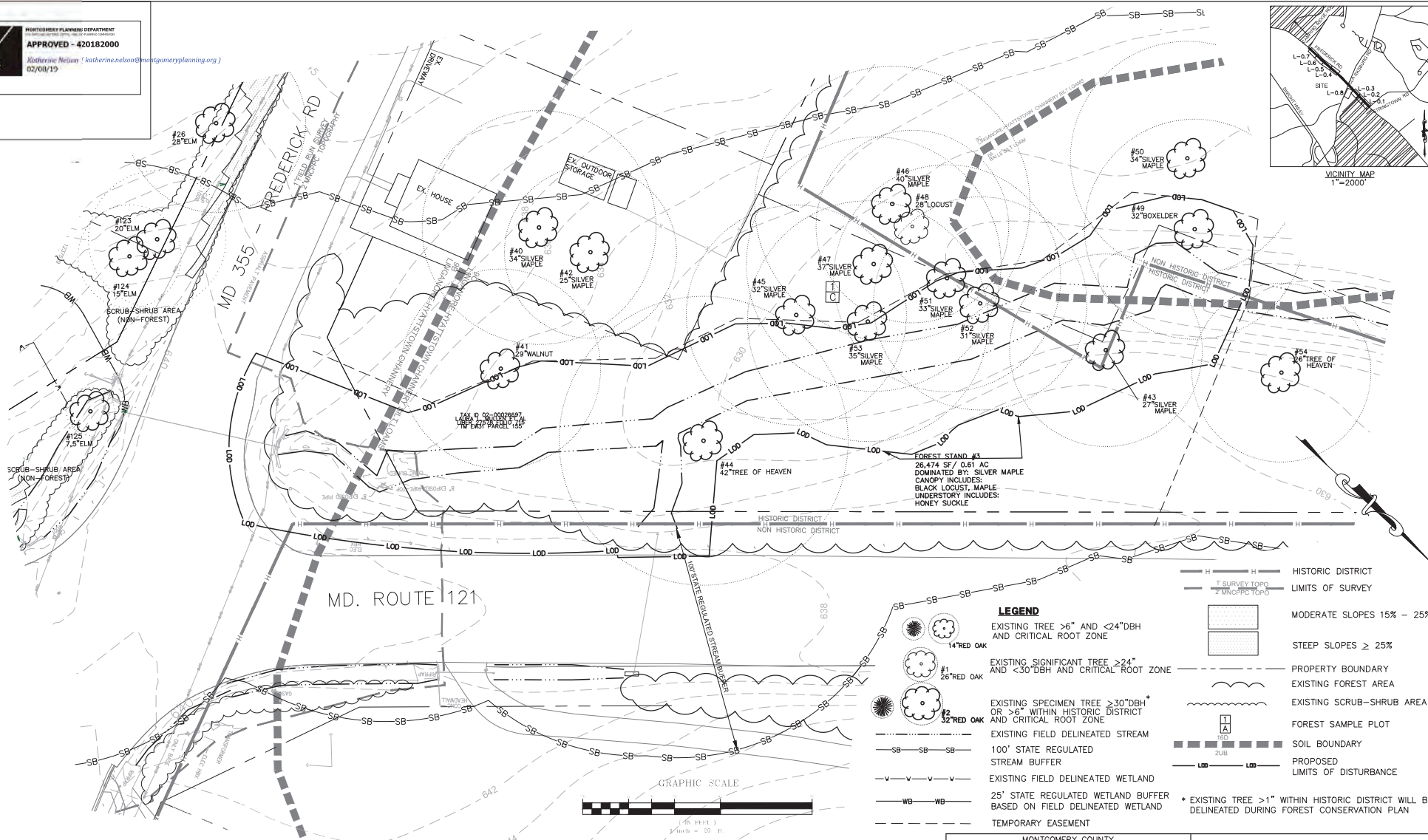
**PLAN SHEET L-0.7**  
**NRI/FSD PLAN**

**MD 355 - CLARKSBURG**  
**SHARED USE PATH**  
**NO. 420182000**

11/2018

Designed by: S.K.L. Drawn by: H.J. Checked by: M.N.

Project No.: C.L.P. # 502744 SHEET 67 of 96




- LEGEND**
- EXISTING TREE >6" AND <24" DBH AND CRITICAL ROOT ZONE
  - EXISTING SIGNIFICANT TREE >24" AND <30" DBH AND CRITICAL ROOT ZONE
  - EXISTING SPECIMEN TREE >30" DBH OR >6" WITHIN HISTORIC DISTRICT AND CRITICAL ROOT ZONE
  - EXISTING FIELD DELINEATED STREAM
  - 100' STATE REGULATED STREAM BUFFER
  - EXISTING FIELD DELINEATED WETLAND
  - 25' STATE REGULATED WETLAND BUFFER BASED ON FIELD DELINEATED WETLAND
  - TEMPORARY EASEMENT
  - HISTORIC DISTRICT
  - LIMITS OF SURVEY
  - MODERATE SLOPES 15% - 25%
  - STEEP SLOPES ≥ 25%
  - PROPERTY BOUNDARY
  - EXISTING FOREST AREA
  - EXISTING SCRUB-SHRUB AREA
  - FOREST SAMPLE PLOT
  - SOIL BOUNDARY
  - PROPOSED LIMITS OF DISTURBANCE
- \* EXISTING TREE >1" WITHIN HISTORIC DISTRICT WILL BE DELINEATED DURING FOREST CONSERVATION PLAN



**CERTIFICATION OF QUALIFIED PROFESSIONAL**

I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MNC&PC AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

11.30.18

  
 MICHAEL A. NORTON  
 NORTON / 061819.08.01  
 QUALIFIED PROFESSIONAL

**NORTON LAND DESIGN**  
 LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING  
 5148 DORSEY HALL DRIVE, 2ND FLOOR  
 BALTIMORE, MD 21204  
 TEL: 410.542.8199 FAX: 410.542.2329 WWW.NORTONLANDDESIGN.COM

WATER CLASS	I/P/IV,P	WATERSHED	LITTLE SENECA CREEK	MAP PANEL	24031C 0160D
TRIBUTARY	ROCK CREEK	PROJECT NO.	24031C 0160D	DATE	11/15/18
TAX MAP	EW341,EW121	200	3241	233NW13	233NW13
SCALE	AS SHOWN	DATE	NOVEMBER 2018	PROJ. NO.	15-138
				SHEET NO.	L-0.8

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 100 EDISON PARK DRIVE, 4TH FLOOR  
 GAITHERSBURG, MD 20878

Designed by: S.K.L. Drawn by: H.J. Checked by: M.N.

**PLAN SHEET L-0.8  
NRI/FSD PLAN**

**MD 355 - CLARKSBURG  
 SHARED USE PATH  
 NO. 420182000**

Project No.: C.L.P. PK # 502744 SHEET 68 of 96



Tree Species	34" Significant & 30" Specimen tree summary with 100' of 6" & 6" Tree Inventory in Right-of-Way	Comments
1. BLACKBERRY	SP	CRITICAL ROOT ZONE
2. BLACKBERRY	SP	CRITICAL ROOT ZONE
3. BLACKBERRY	SP	CRITICAL ROOT ZONE
4. BLACKBERRY	SP	CRITICAL ROOT ZONE
5. BLACKBERRY	SP	CRITICAL ROOT ZONE
6. BLACKBERRY	SP	CRITICAL ROOT ZONE
7. BLACKBERRY	SP	CRITICAL ROOT ZONE
8. BLACKBERRY	SP	CRITICAL ROOT ZONE
9. BLACKBERRY	SP	CRITICAL ROOT ZONE
10. BLACKBERRY	SP	CRITICAL ROOT ZONE
11. BLACKBERRY	SP	CRITICAL ROOT ZONE
12. BLACKBERRY	SP	CRITICAL ROOT ZONE
13. BLACKBERRY	SP	CRITICAL ROOT ZONE
14. BLACKBERRY	SP	CRITICAL ROOT ZONE
15. BLACKBERRY	SP	CRITICAL ROOT ZONE
16. BLACKBERRY	SP	CRITICAL ROOT ZONE
17. BLACKBERRY	SP	CRITICAL ROOT ZONE
18. BLACKBERRY	SP	CRITICAL ROOT ZONE
19. BLACKBERRY	SP	CRITICAL ROOT ZONE
20. BLACKBERRY	SP	CRITICAL ROOT ZONE
21. BLACKBERRY	SP	CRITICAL ROOT ZONE
22. BLACKBERRY	SP	CRITICAL ROOT ZONE
23. BLACKBERRY	SP	CRITICAL ROOT ZONE
24. BLACKBERRY	SP	CRITICAL ROOT ZONE
25. BLACKBERRY	SP	CRITICAL ROOT ZONE
26. BLACKBERRY	SP	CRITICAL ROOT ZONE
27. BLACKBERRY	SP	CRITICAL ROOT ZONE
28. BLACKBERRY	SP	CRITICAL ROOT ZONE
29. BLACKBERRY	SP	CRITICAL ROOT ZONE
30. BLACKBERRY	SP	CRITICAL ROOT ZONE
31. BLACKBERRY	SP	CRITICAL ROOT ZONE
32. BLACKBERRY	SP	CRITICAL ROOT ZONE
33. BLACKBERRY	SP	CRITICAL ROOT ZONE
34. BLACKBERRY	SP	CRITICAL ROOT ZONE
35. BLACKBERRY	SP	CRITICAL ROOT ZONE
36. BLACKBERRY	SP	CRITICAL ROOT ZONE
37. BLACKBERRY	SP	CRITICAL ROOT ZONE
38. BLACKBERRY	SP	CRITICAL ROOT ZONE
39. BLACKBERRY	SP	CRITICAL ROOT ZONE
40. BLACKBERRY	SP	CRITICAL ROOT ZONE
41. BLACKBERRY	SP	CRITICAL ROOT ZONE
42. BLACKBERRY	SP	CRITICAL ROOT ZONE
43. BLACKBERRY	SP	CRITICAL ROOT ZONE
44. BLACKBERRY	SP	CRITICAL ROOT ZONE
45. BLACKBERRY	SP	CRITICAL ROOT ZONE
46. BLACKBERRY	SP	CRITICAL ROOT ZONE
47. BLACKBERRY	SP	CRITICAL ROOT ZONE
48. BLACKBERRY	SP	CRITICAL ROOT ZONE
49. BLACKBERRY	SP	CRITICAL ROOT ZONE
50. BLACKBERRY	SP	CRITICAL ROOT ZONE
51. BLACKBERRY	SP	CRITICAL ROOT ZONE
52. BLACKBERRY	SP	CRITICAL ROOT ZONE
53. BLACKBERRY	SP	CRITICAL ROOT ZONE
54. BLACKBERRY	SP	CRITICAL ROOT ZONE
55. BLACKBERRY	SP	CRITICAL ROOT ZONE
56. BLACKBERRY	SP	CRITICAL ROOT ZONE
57. BLACKBERRY	SP	CRITICAL ROOT ZONE
58. BLACKBERRY	SP	CRITICAL ROOT ZONE
59. BLACKBERRY	SP	CRITICAL ROOT ZONE
60. BLACKBERRY	SP	CRITICAL ROOT ZONE
61. BLACKBERRY	SP	CRITICAL ROOT ZONE
62. BLACKBERRY	SP	CRITICAL ROOT ZONE
63. BLACKBERRY	SP	CRITICAL ROOT ZONE
64. BLACKBERRY	SP	CRITICAL ROOT ZONE
65. BLACKBERRY	SP	CRITICAL ROOT ZONE
66. BLACKBERRY	SP	CRITICAL ROOT ZONE
67. BLACKBERRY	SP	CRITICAL ROOT ZONE
68. BLACKBERRY	SP	CRITICAL ROOT ZONE
69. BLACKBERRY	SP	CRITICAL ROOT ZONE
70. BLACKBERRY	SP	CRITICAL ROOT ZONE
71. BLACKBERRY	SP	CRITICAL ROOT ZONE
72. BLACKBERRY	SP	CRITICAL ROOT ZONE
73. BLACKBERRY	SP	CRITICAL ROOT ZONE
74. BLACKBERRY	SP	CRITICAL ROOT ZONE
75. BLACKBERRY	SP	CRITICAL ROOT ZONE
76. BLACKBERRY	SP	CRITICAL ROOT ZONE
77. BLACKBERRY	SP	CRITICAL ROOT ZONE
78. BLACKBERRY	SP	CRITICAL ROOT ZONE
79. BLACKBERRY	SP	CRITICAL ROOT ZONE
80. BLACKBERRY	SP	CRITICAL ROOT ZONE
81. BLACKBERRY	SP	CRITICAL ROOT ZONE
82. BLACKBERRY	SP	CRITICAL ROOT ZONE
83. BLACKBERRY	SP	CRITICAL ROOT ZONE
84. BLACKBERRY	SP	CRITICAL ROOT ZONE
85. BLACKBERRY	SP	CRITICAL ROOT ZONE
86. BLACKBERRY	SP	CRITICAL ROOT ZONE
87. BLACKBERRY	SP	CRITICAL ROOT ZONE
88. BLACKBERRY	SP	CRITICAL ROOT ZONE
89. BLACKBERRY	SP	CRITICAL ROOT ZONE
90. BLACKBERRY	SP	CRITICAL ROOT ZONE
91. BLACKBERRY	SP	CRITICAL ROOT ZONE
92. BLACKBERRY	SP	CRITICAL ROOT ZONE
93. BLACKBERRY	SP	CRITICAL ROOT ZONE
94. BLACKBERRY	SP	CRITICAL ROOT ZONE
95. BLACKBERRY	SP	CRITICAL ROOT ZONE
96. BLACKBERRY	SP	CRITICAL ROOT ZONE
97. BLACKBERRY	SP	CRITICAL ROOT ZONE
98. BLACKBERRY	SP	CRITICAL ROOT ZONE
99. BLACKBERRY	SP	CRITICAL ROOT ZONE
100. BLACKBERRY	SP	CRITICAL ROOT ZONE

## SITE NARRATIVE AND FOREST SUMMARY

**INTRODUCTION**  
 Norton Land Design completed a Natural Resource Inventory & Forest Stand Calculation for the subject brown at 100-355 Frederick Road Shared Use Path located in Clarksburg, Montgomery County, MD in April 2018. The calculation was conducted using the guidelines set forth in the MDCR State Forest Conservation Technical Manual and MDCRPC Trees, Approved Technical Manual.

**GENERAL INFORMATION**  
 This is a 2.82-acre site. The subject property is located along the right of way on Clarksburg Rd. The property in the North is mostly the existing residential area. The subject study area will be considered Ten Mile Creek & Clarksburg Special Protection Area (SPA).

**ENVIRONMENTAL FEATURES**  
 The FEMA Flood map Community-Panel # 24031C 05000 indicates there is no floodplain on the property.

**SOILS**  
 The Soil Survey of Montgomery County, Maryland describes the soil types that are present on the property as follows. The general soil association for this part of the county is Urban/Land-Wheat/Growing.

**Soil type 9B - Lingano-Hyattstown channery silt loams, 2-8% slopes. These soils are well drained and gently sloping on broad ridges and side slopes. The Lingano soil generally is slightly lower on the landscape than the Hyattstown soil. Slopes are generally smooth, but a few are dissected by small drainages. The potential productivity for trees on these soils is moderate to high. The depth to bedrock is the main limitation on dwellings with basements and septic beds.**

**Soil type 3C - Lingano-Hyattstown channery silt loams, 8-15% slopes. These soils are well drained and gently sloping on broad ridges and side slopes. The Lingano soil generally is slightly lower on the landscape than the Hyattstown soil. Slopes generally are smooth, but a few are dissected by small drainages. The potential productivity for trees on these soils is moderate to high. The depth to bedrock is the main limitation on dwellings with basements and septic beds.**

**11B - Brinklow-Blocktown channery silt loams, 3 to 8 percent slopes. These soils are well drained and gently sloping on broad ridges and side slopes. The main management concerns are the moderate hazard of erosion and the very low available water capacity in the Blocktown soil. The potential productivity for trees on this soil is moderately high. The hazard of windthrow is severe on the Blocktown soil. The depth to bedrock is the main limitation on dwellings with basements and septic beds.**

**16C - Brinklow-Blocktown channery silt loams, 8 to 15 percent slopes. These soils are well drained and gently sloping on broad ridges and side slopes. The main management concerns are the moderate hazard of erosion and the very low available water capacity in the Blocktown soil. The potential productivity for trees on this soil is moderately high. The hazard of windthrow is severe on the Blocktown soil. The depth to bedrock is the main limitation on dwellings with basements and septic beds.**

**17B - Occoquan loam - 2 to 8 percent slopes. This soil is well drained and is on ridge-top and side slopes. The permeability of the soil is moderate. The potential productivity for trees on this soil is moderate.**

**WETLANDS**  
 There were wetlands and wetland buffers overlain within 100' of the L.O.D. during the field investigation. Wetlands and 25' wide riparian buffers were provided by Wallace Montgomery & Associates. An 875 sq ft wetland buffer was applied (see to special protection area regulation (Ten Mile Creek).

**STREAMS AND DRAINAGES**  
 There were streams overlain on the site and within 100' of the L.O.D. The site is within the Little Seneca Creek - Ten Mile Creek National Urban Watershed. The stream was located from Wallace Montgomery & Associates. The 100' buffers were applied to stream lines not within hydro-division, due to special protection area regulation (Ten Mile Creek).

**TOPOGRAPHY AND STEEP SLOPES**  
 The site generally slopes to the North to South from the center.

**CRITICAL HABITATS**  
 The MDCR has been notified of the proposed use and observation. There appears to be no critical wildlife habitat from the field inspection. Copies of their correspondence are provided when received.

**CULTURAL FEATURES**  
 This study area is located within the Clarksburg Historic District. The Historic District boundary lines shown are sourced from Wallace Montgomery & Associates.

## SOIL TABLE

SOILS	ERODIBLE	HYDRIC	CONTAINS 15-25% SLOPES	CONTAINS > 25% SLOPES	CAPABILITY SUBCLASS SYMBOL	PRIME AGRICULTURAL SOIL
9B LINGANO-HYATTSTOWN CHANNERY SILT LOAMS 3-8% SLOPES	NO	NO	NO	YES	N/A	NO
9C LINGANO-HYATTSTOWN CHANNERY SILT LOAMS 8-15% SLOPES	YES	NO	YES	YES	N/A	NO
16B BRINKLOW-BLOCKTOWN CHANNERY SILT LOAMS 8-15% SLOPES	NO	NO	NO	YES	N/A	NO
16C BRINKLOW-BLOCKTOWN CHANNERY SILT LOAMS 8-15% SLOPES	YES	NO	NO	N/A	N/A	NO
17B OCCOQUAN LOAM 3-8% SLOPES	NO	NO	NO	YES	N/A	NO

**NOTE**  
 TREES #109-125 WERE PROVIDED BY OTHERS. SPECIES AND SIZE WILL BE CONFIRMED AT FCP SUBMITTAL.

DATUM: NAD 83/91 HORIZONTAL  
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY	Designed by	Drawn by	Checked by	M.N.	Project No.	CLP, PG. # 001/04	SHEET	69	OF	96
-----	----------	------	----	-------------	----------	------------	------	-------------	-------------------	-------	----	----	----

## FOREST STAND INFORMATION

The forest stand plot samples were done in a random method as outlined in Natural Resource Inventory & Forest Stand Calculation, 1975, and Simplified Forest Stand Calculation, 1975. The plot size was 1/10 acre. Each individual stand has a minimum of one (1) forest sample plot. In the case of some forest stands that were too small to sample, the forest was generally described. These plots were conducted to inventory the most representative area of the forest stand.

**FOREST STAND #1**  
 Forest Stand 1 (880 sq ft, 0.02 ac) is an upland hardwood area. The stand is dominated by 8-20" silver maple. The canopy also includes red oak and pine trees. The understorey consists of honey suckle. There appears to be a large amount of invasive plant cover throughout the forest. The forest appears to be healthy and in good condition. The priority for this stand is 2: Moderate Retention.

**FOREST STAND #2**  
 Forest Stand 2 (880 sq ft, 0.02 ac) is an upland hardwood area. The stand is dominated by 20-30" silver maple. The canopy includes sycamore, mulberry, and walnut trees. The understorey consists of honey suckle. The priority for this stand is 1: High Retention because of the presence of the specimen trees.

**FOREST STAND #3**  
 Forest Stand 3 (26,474 sq ft, 0.61 ac) is an upland hardwood area. The stand is dominated by 30-40" silver maple. The canopy includes sycamore and sugar maple. The understorey consists of honey suckle. The priority for this stand is 1: High Retention because of the presence of the specimen trees.

**FOREST STAND #4**  
 Forest Stand 4 (2,095 sq ft, 0.05 ac) is an upland hardwood area. The stand is dominated by 30-40" silver maple. The canopy includes Norway maple and sugar maple. The understorey consists of honey suckle. The priority for this stand is 1: High Retention because of the presence of the specimen trees.

**FOREST STAND #5**  
 Forest Stand 5 (5,503 sq ft, 0.12 ac) is an upland hardwood area. The stand is dominated by 12-18" black cherry. The canopy includes black locust, Norway maple, sycamore, and silver maple. The understorey consists of honey suckle. The priority for this stand is 2: Moderate.

## GENERAL NR/IFSD NOTES

1. THE PROPERTY IS WITHIN RIGHT OF WAY.
2. THE TOTAL TRACT AREA IS 2.82 ACRES.
3. SITE FIELD WORK WAS PERFORMED IN APRIL, 2018 BY MICHAEL NORTON, NORTON LAND DESIGN LLC.
4. THIS SITE IS WITHIN THE LITTLE SENeca CREEK URBAN WATERSHED.
5. THIS PROPERTY IS WITHIN A MILE CREEK SPA.
6. THERE ARE WETLANDS AND BUFFER LINES WITHIN 100' OF THE L.O.D. THE WETLANDS AND BUFFER LINES WERE SOURCED FROM WALLACE MONTGOMERY & ASSOCIATES.
7. THERE ARE STREAMS AND STREAM BUFFERS WITHIN 100' OF THE L.O.D. THE STREAM LINE WAS SOURCED FROM WALLACE MONTGOMERY & ASSOCIATES.
8. THERE IS NO FLOODPLAIN ASSOCIATED WITH THE PROPERTY ACCORDING TO THE FEMA ONLINE FIRMETTE MAP #24031C 05000.
9. TOPOGRAPHY AND BOUNDARY SURVEY WAS PROVIDED BY WALLACE MONTGOMERY & ASSOCIATES. IN APRIL, 2018. ADDITIONAL 2" TOPOGRAPHY DERIVED FROM MDCRPC MONTGOMERY COUNTY TOPOGRAPHIC MAP SHEET 2320W13, 2320W13, & 2320W14.
10. THERE ARE NO PRIME AGRICULTURAL SOILS ON THE PROPERTY (SEE SOIL TABLE).
11. ALL TREES 2" AND GREATER WITHIN THE STUDY AREA ARE SURVEY LOCATED AND MEASURED WITHIN A FORESTED DAMITARY LAMP MEASURED.
12. ALL TREES 2" AND GREATER OUTSIDE OF STUDY AREA ARE NOT LOCATED. ALL DAMAGE TO STRUCTURES OR FENCES ARE LOCATED BY AVAILABLE AERIAL PHOTOGRAPHS AND/OR OCCULAR ESTIMATE.
13. ALL TREES INCEIVED ON DATE ARE MEASURED BY OCCULAR ESTIMATE ONLY. NO BASIC THREATENED OR ENDANGERED SPECIES WERE OBSERVED ON OR OFFSITE AT THE TIME OF THE FIELD INVESTIGATION. CORRESPONDENCE FROM MARYLAND DNR AND US FISH AND WILDLIFE SERVICE WILL BE PROVIDED WHEN RECEIVED.
14. NO TREES LOCATED WITHIN THE STUDY AREA WHICH ARE RECOGNIZED AS CURRENT STATE CHAMPION TREES.

THE SUBJECT PROPERTY IS LISTED AS CLARKSBURG HISTORIC SITE AS FOUND IN THE MDCRPC HISTORIC PROPERTIES INTERACTIVE MAP.

## NRI/IFSD TABULATION TABLE

ACREAGE OF TRACT:	2.82*
ACREAGE OF EX. FOREST:	1.16*
ACREAGE OF EXISTING WETLANDS:	0.07*
ACREAGE OF FORESTED WETLANDS:	0.07*
ACREAGE OF WETLAND BUFFERS:	0.25*
ACREAGE OF STREAM BUFFERS:	1.46*
ACREAGE OF FORESTED STREAM BUFFER:	0.63*
ACREAGE OF 100' YEAR FLOODPLAIN:	0.00
LINEAR EXTENT OF STREAM BUFFER:	342'
AVERAGE WIDTH OF STREAM BUFFER:	200'
*REPRESENTATIVE OF ONLY THE AREA WITHIN LOD & UTILIZING EXISTING FIELD DELINEATED RESOURCE BOUNDARY PROVIDED BY WALLACE MONTGOMERY ONLY.	

## CERTIFICATION OF QUALIFIED PROFESSIONAL

I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MDCRPC AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

11.30.18  
 DATE  
 MICHAEL A. NORTON  
 02/08/2019  
 SOILS PROFESSIONAL

<b>NORTON LAND DESIGN</b> LANDSCAPE ARCHITECTURE & ENVIRONMENTAL PLANNING 5140 DORSEY HALL DRIVE, 2ND FLOOR BALTIMORE, MD 21204 410.443.5423 FAX 410.443.2329/401 WWW.NORTONLANDDESIGN.COM	
WATER CLASS L/P/W/P	WATERSHED LITTLE SENeca CREEK
WETLANDS ROCK CREEK	MAP PANEL # 24031C 01600
TAX MAP EW341.0W121	2320W13, 2320W14, 2320W15
SCALE AS SHOWN	DATE NOVEMBER 2018
SHEET NO. 15-138	OF 15-138

**PLAN SHEET L-0.9**  
**NRI/IFSD SITE NARRATIVE & FOREST SUMMARY**  
**MD 355 - CLARKSBURG**  
**SHARED USE PATH**  
**NO. 420182000**







01/25/2019

# Potomac Edison - Street Lights on Clarksburg Square Rd





### **Historic Preservation Commission Preliminary Consultation Report**

Staff Contact: Michael Kyne

HPC Commissioners Present: Marsha Barnes, Karen Burditt, Sandra Heiler (Chair), Robert Sutton (Vice Chair), Cristina Radu, Jeffrey Hains

Applicant(s) and/or Representatives: Montgomery County/ MCDOT SHA, Dan Sheridan (Chief of Design Section, Division of Transportation and Engineering, MCDOT), Mark Bodmann (Project Engineer, Design Consultant, Wallace Montgomery), Scott Rose (Project Manager, Wallace Montgomery)

---

#### **Design recommendations:**

1. The Commissioners voiced support for the project but recommended the following:
  - a. The proposed Colonial-style light fixtures will detract from the historic district, and alternatives should be explored.

Potomac Edison only has two styles, Colonial and Acorn post top. Members of the Clarksburg Historic District requested the Colonial post top; however, to match with lighting on an adjacent project in Clarksburg area, the Acorn top appears to be a better match (see attachments). We will revise the design plans to show the Acorn top lighting.
  - b. Explore reducing the height of the retaining wall at 23415 Frederick Road (as depicted on Page 32 of the February 12, 2020 staff report).

The maximum height of the retaining wall is 6 foot above grade. Reducing the height requires moving the wall closer to the road. Due to buffer requirements and minimum path width requirements, the wall can only be moved 1' – 2', which would not perceptibly change the wall height, would conflict with proposed drainage, and possibly conflict with waterline relocation. We recommend keeping height as-is.
  - c. Concerns were expressed regarding altering the relationship of house along Frederick Road to street, due to the construction of retaining walls in front of the houses. The applicant should explore the introduction of stairs within the retaining walls to retain the relationship.

There currently are no pedestrian accommodations to the front of 23407 and 23415, which are commercial properties. Pedestrian access is currently from the rear and side of both houses (23407 and 23415). We recommend keeping the access design as-is.

- d. Consider reduction of the paved area and driveway width at 23421 Frederick Road (as depicted on Page 34 of the February 12, 2020 staff report).  
MCDOT will reduce the driveway width to the minimum needed for commercial use of the driveway and type of vehicles requiring access.
- e. Consider working with property owners to reduce the number of curb cuts and/or combine driveways.  
MCDOT has reduced the width of the driveways where possible.
- f. Explore minimizing the amount of pavement directly adjacent to the proposed shared use path and/or in front of the houses.  
MCDOT will reduce the amount of pavement where possible.
- g. Concrete with exposed aggregate should be used in lieu of plain concrete.  
Exposed aggregate concrete is not a standard material for sidewalks and is not allowed by SHA. Tinted or stained concrete can be used as an aesthetic alternative.
- h. Explore differing border materials along the proposed shared use path to achieve the required 8' minimum width.  
Separate materials will cause differential settlement along the edge of the path and will create uneven pavement which will create ADA compatibility issues. This is not recommended.
- i. Consider preserving the existing concrete stair along Frederick Road (as depicted on Page 27 of the February 12, 2020 staff report).  
MCDOT agrees with your recommendation. The specification and plans within the contract will be amended to direct the contractor to remove and salvage the existing stairs. The contractor will coordinate with MNCPPC to have the stairs taken to a preferred location.
- j. Reduce the height of all proposed retaining walls and soften the retaining walls' appearance, where possible.  
Please see respond to previous comment regarding the height of retaining walls.  
Retaining wall faces will be changed to a plain concrete as requested. Concrete form liner will not be used.

## Additional responses to the Commissioners comments

MCDOT, Office of Property Acquisition has contacted several property owners and their representatives regarding proposed right of way, and modification to some property driveways, due to the construction of the new shared use bike path.

The following are details of our discussion and changes:

### 23407 Frederick Road (Dentist office)

- Adjusted grading to meet the deck elevation from new bike path
- Shortened driveway apron
- Removed the parking spaces in front of the building to construct the bike path and provided parking spaces in the side of the building. By doing this the amount of pavement in front of the building was reduced

Our property Acquisition Specialist contacted the property owners on 6/1, 9/18, and 9/24. The property owner has now hired a lawyer to represent him.

### 23421 Frederick Road

- Reduced the driveway entrance width from 30 to 20 foot

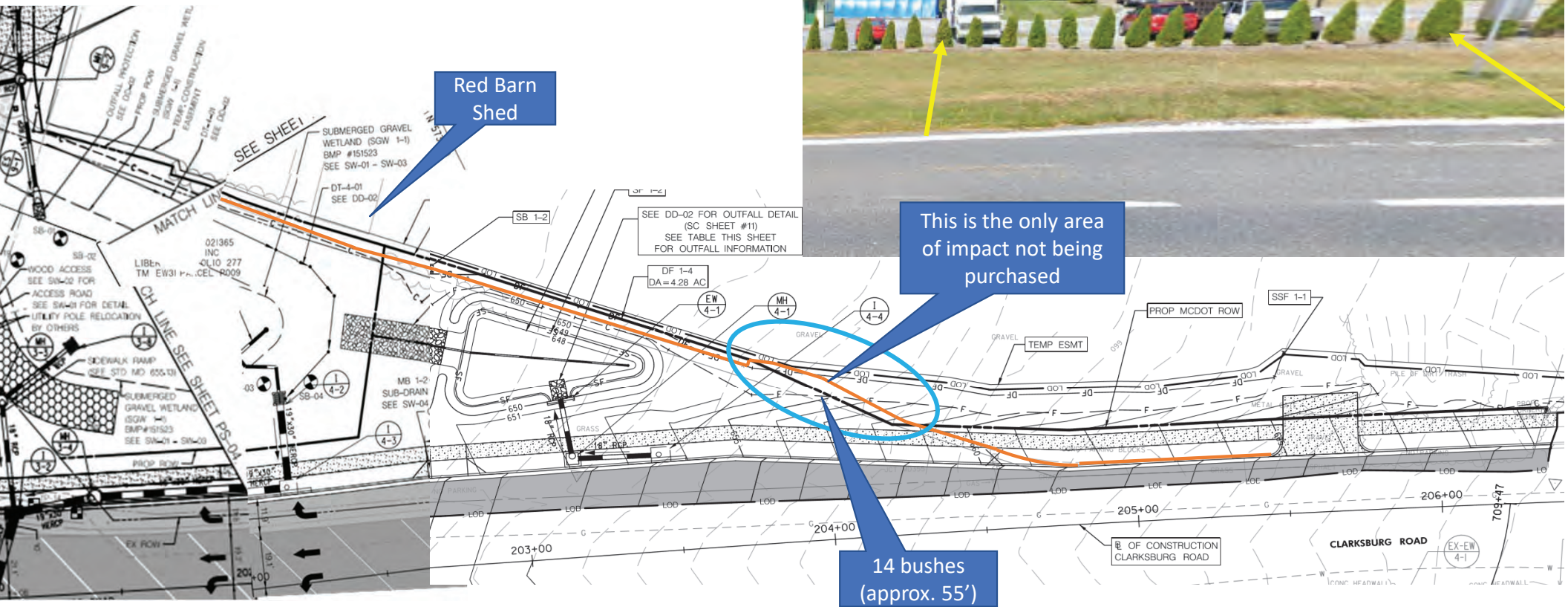
### 23425 Fredrick Road (Plumbing)

- Combined two entrances to one and reduced the driveway width to 20 feet at the front of entrance.

### 23415 Fredrick Road (Plumbing)- Retaining wall in front of the building

- The pedestrian access in this property is currently on the side. Our Property Acquisition Specialist contacted the property owner representative on 10/9 and 10/12 to discuss about the proposed right of way and if the property owner prefers to have a direct access from the front of the building to the proposed bike path. Apparently, the owner of the property hired a real estate firm to redevelop their property and they will not come to any agreements without their site plan first approved.





PLANTING IMPACT ALONG PROPERTY LINE



**TRANSMITTAL LETTER**

DATE: 11/6/2020

TO :

8787 Georgia Avenue  
Silver Spring MD 20910  
United States

ATTENTION: Michael Kyne

PROJ NO: 214013.0010

Maryland National Capitol Parks and  
Planning Commission  
8787 Georgia Avenue  
Silver Spring MD 20910  
United States

RE: MD 355 Clarksburg Shared  
Use Path

ATTENTION: Rebecca Ballo

QTY	DATED	DESCRIPTION
1	10/21/2020	2020-10-21_Clarksburg @ MD 355 Full Plan Set.pdf

REMARKS: Michael, Rebecca,

Click on the link to download the latest plans for the Intersection project.  
Use the Index of Drawings to navigate to desired plans within the set. Let  
me know if you have any questions.

Thanks.

Scott

Daniel Sheridan  
Yasamin Esmaili  
Mark Bodmann

(Montgomery County Government)  
(Montgomery County Government)  
(WM&A)

Electronic Data Disclaimer

If applicable, the enclosed electronic data has been issued for informational and reference purposes only, and is solely intended for the referenced project. The enclosed electronic data is not intended or authorized for use on any other project, and WM makes no representation as to their suitability for any other use. Any use or re-use of the digital data files provided herein other than intended will be at the user's own risk and full legal responsibility.

Users of this digital information must check and verify compliance with the sealed original plans, as variances may result due to the use of different software, hardware, or output devices. WM assumes no liability and is held harmless for inconsistencies and or changes by others between the electronic data and original plan sheets.

The user of this data shall, to the fullest extent permitted by law, indemnify and hold WM harmless from the use of these data files for other than the intended project, any and all claims arising out of or resulting there from. Use of this electronic data constitutes



## Transmittal

DATE: 11/6/2020  
TRANSMITTAL ID: 00048

acceptance of these conditions.

# INDEX OF SHEETS

SHEET NO.	DWG NO.	TITLE	DPS SC/SWM NO.
1	TI-01	TITLE SHEET	1
2	GN-01	GENERAL NOTES AND ABBREVIATIONS	2
3	GN-02	GENERAL NOTES	3
4-6	TS-01 TO TS-03	TYPICAL SECTIONS	N/A
7	PD-01	PAVEMENT DETAILS	N/A
8	DE-01	DETAILS SHEET	N/A
9	GS-01	GEOMETRY PLAN	N/A
10-12	ID-01 TO ID-03	INTERSECTION DETAIL PLANS	N/A
13	LA-00	LAYOUT SHEET	N/A
14-23	PS-01 TO PS-10	ROADWAY PLAN SHEETS Pages 21, 16, 22, 23	N/A
24-25	HP-01 TO HP-02	PROFILE SHEETS	N/A
26-31	DP-01 TO DP-06	DRAINAGE PROFILE SHEETS	4-9
32-37	DD-01 TO DD-06	DRAINAGE DETAILS	10-15
38-40	SW-01 TO SW-03	STORMWATER MANAGMENT DETAILS - SUBMERGED GRAVEL WETLAND 1-1	16-18
41	SW-04	STORMWATER MANAGMENT DETAILS - MICRO-BIORETENTION 1-2	19
42	SW-05	STORMWATER MANAGMENT DETAILS - MICRO-BIORETENTION 2-1	20
43	ES-01	EROSION & SEDIMENT CONTROL GENERAL NOTES	21
44	ES-02	EROSION & SEDIMENT CONTROL - SEQUENCE OF CONSTRUCTION	22
45-46	ES-03 TO ES-04	EROSION & SEDIMENT CONTROL DETAILS	23-24
47-50	ES-100 TO ES-103	EROSION & SEDIMENT CONTROL PHASE 1 PLANS	25-28
51-53	ES-200 TO ES-202	EROSION & SEDIMENT CONTROL PHASE 2 PLANS	29-31
54-55	ES-300 TO ES-301	EROSION & SEDIMENT CONTROL PHASE 3 PLANS	32-33
56-62	ES-400 TO ES-406	EROSION & SEDIMENT CONTROL PHASE 4 PLANS	34-40
63	LD-00	LANDSCAPE GENERAL NOTES	41
64-67	LD-01 TO LD-04	LANDSCAPE DETAILS SHEETS	42-45
68-77	LP-01 TO LP-10	LANDSCAPE PLAN SHEETS Pages 75, 70, 76, 77	N/A
78-83	ST-101 TO ST-106	STRUCTURES PLANS Pages 78, 79, 80, 82	N/A
84-90	MT-01 TO MT-07	MAINTENANCE OF TRAFFIC PLAN	N/A
91-92	SG-01 TO SG-02	TRAFFIC SIGNAL PLANS	N/A
93	SN-00	SIGNING AND MARKING GENERAL NOTES AND PROPOSALS	N/A
94-103	SN-01 TO SN-10	SIGNING AND MARKING PLAN SHEETS Pages 101, 96, 102, 103	N/A
104-105	SN-11.1 TO SN-11.2	SIGNING AND MARKING INDEX OF QUANTITIES	N/A
106	LT-00	LIGHTING GENERAL NOTES AND DETAILS	N/A
107-114	LT-2.1 TO LT-2.8	LIGHTING PLAN SHEETS Pages 112, 107, 113, 114	N/A
115	LT-03	LIGHTING SCHEDULE	N/A
116	GR-01	GRADING TABLE AND SUMMARY OF EARTHWORK	N/A
117-119	BL-01 TO BL-03	BORING LOGS	N/A

INDEX OF SHEETS  
SEE SHEET 2

GENERAL NOTES  
SEE SHEET 3

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF TRANSPORTATION ENGINEERING  
MD 355/CLARKSBURG ROAD  
INTERSECTION IMPROVEMENTS

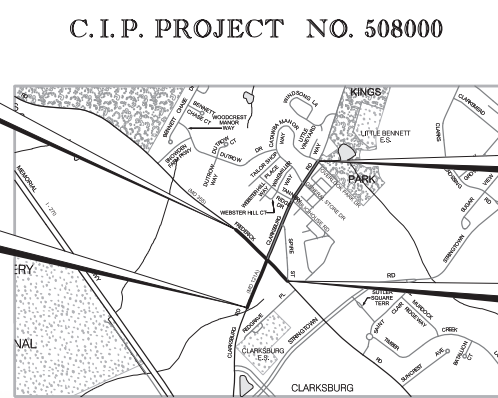
C.I.P. PROJECT NO. 508000

**LIMIT OF WORK**  
508000  
MD 355  
STA. 515 + 30

**LIMIT OF WORK**  
508000  
CLARKSBURG RD  
STA. 191 + 50

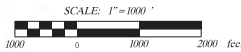
**LIMIT OF WORK**  
508000  
CLARKSBURG RD  
STA. 217 + 58

**LIMIT OF WORK**  
508000  
MD 355  
STA. 503 + 20



VICINITY MAP

MONTGOMERY COUNTY  
LENGTH OF PROJECT  
CLARKSBURG RD = 0.49 MILES  
MD 355 = 0.23 MILES



TREE CANOPY REQUIREMENTS TABLE			
To determine the minimum required tree canopy for a project, the applicant must first determine the project's total area and then apply the appropriate canopy requirement based on the project's location and type.			
Project Type	Area (sq. ft.)	Minimum Required Canopy (%)	Minimum Required Canopy (sq. ft.)
1. Single-Family Residential	100,000	10	10,000
2. Multi-Family Residential	100,000	15	15,000
3. Commercial/Industrial	100,000	20	20,000
4. Public/Institutional	100,000	25	25,000
5. Other	100,000	30	30,000

**ATTENTION**  
THIS SITE IS WITHIN THE ENVIRONMENTALLY SENSITIVE  
**CLARKSBURG SPECIAL PROTECTION AREA**  
TO HELP PROTECT THE DELICATE AQUATIC HABITAT  
FROM THE IMPACTS OF LAND DEVELOPMENT  
THEIR PLANS MUST BE STRICTLY ADHERED TO  
IF THERE IS A PROBLEM, CALL  
LEO GALANCKO AT 202-777-6242  
AND THE MCDPS STAFF MEMBER WILL ASSIST YOU  
IN DEVELOPING A SOLUTION BEFORE STREAM IMPACTS OCCUR.  
REMARK: THAT THIS SITE IS WITHIN A SPECIAL PROTECTION AREA, YOU MUST CALL  
LEO GALANCKO AT 202-777-6242  
"LET'S WORK TOGETHER TO KEEP IT CLEAN"  
ACKNOWLEDGED: TIMOTHY H. CUPPLES, P.E.  
OWNER/DEVELOPER

**MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION**  
**MAINTENANCE CERTIFICATION**

I hereby certify that the Department of Transportation will assume maintenance responsibility for all maintenance management facilities as listed and shown herein, in accordance with the MEMORANDUM OF UNDERSTANDING between the Department and the Department of Environmental Protection dated September 1, 1996. If, for any reason, future improvements to the facility are planned that would impact any of the maintenance management facilities included herein, this Department will notify the Department of Environmental Protection during the planning or early design stage for such improvements.

TIMOTHY H. CUPPLES, P.E.  
CHIEF, DIVISION OF TRANSPORTATION ENGINEERING

Date: \_\_\_\_\_

**SEDIMENT CONTROL/STORMWATER MANAGEMENT CERTIFICATIONS**

CERTIFICATIONS ON THIS SHEET MUST BE ON EVERY SEDIMENT CONTROL/STORMWATER MANAGEMENT PLAN.

**OWNER'S DEVELOPER'S CERTIFICATION**

I/We hereby certify that all clearing, grading, construction, and/or development will be done pursuant to this plan and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources approved training program for the control of sediment and erosion before beginning the project.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
TIMOTHY H. CUPPLES, P.E., CHIEF, DIVISION OF TRANSPORTATION ENGINEERING  
(Printed Name and Title)

**DESIGN CERTIFICATION**

I hereby certify that this plan has been prepared in accordance with the "2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control" (Montgomery County Department of Public Works and Executive Regulations 5-90, 7-03AM and 38-90), and Montgomery County Department of Public Works and Executive Regulation "Storm Drain Design Criteria" dated August 1998.

Design Engineer Signature: \_\_\_\_\_ Date: 3/14/2022  
JASON M. ALWINE 24819  
(Printed Name and Title) Registration Number

**CERTIFICATION OF THE QUANTITIES**

I hereby certify that the estimated total amount of excavation and fill as shown on these plans has been computed to be 4500 cubic yards of excavation and 2620 cubic yards of fill and the total area to be disturbed as shown on these plans has been determined to be 105,004 square feet.

Signature: \_\_\_\_\_ Date: 3/14/2022  
JASON M. ALWINE 24819  
(Printed Name and Title) Registration Number

\*ALL DISTURBED AREAS FALL WITHIN SPECIAL PROTECTION AREA.

**RELATED REQUIRED PERMITS**

To be completed by the consultant and placed on the first sheet of the Sediment Control/Stormwater Management plan set for all projects

IT IS THE RESPONSIBILITY OF PERMITTEE/OWNER OF THIS SITE TO OBTAIN ALL REQUIRED PERMITS PRIOR TO ISSUANCE OF THE APPROVED SEDIMENT CONTROL PERMIT

TYPE OF PERMIT	REQ'D	NOT REQ'D	PERMIT NO.	EXPIRATION DATE	WORK RESTRICTION DATES
MCDPS Floodplain district		X			
WATERWAYS/WETLAND(S)					
a. Corps of Engineers	X		TBD	TBD	
b. MDE	X		TBD	TBD	
c. MDE Water Quality Certification		X			
MDE Dam Safety		X			
DPS ROADSIDE TREES PROTECTION PLAN	X		TBD	APPROVAL DATE TBD	DATE FILED TBD
N.P.D.S. NOTICE OF INTENT	X				
FEMA LOMR (REQUIRED POST CONSTRUCTION)		X			
OTHERS (Please List):					
MDCPC - CONSTRUCTION	X		2017-029	TBD	
MSHA ACCESS PERMIT	X		16-AP-MD-004-XX	TBD	
DNR - ROADSIDE TREE PERMIT	X		2019-0147	N/A	

\* A COPY OF THE APPROVED ROADSIDE TREE PROTECTION PLAN MUST BE DELIVERED TO THE SEDIMENT CONTROL INSPECTOR AT THE PRECONSTRUCTION MEETING.



HORIZONTAL DATUM	NAD 83/91
VERTICAL DATUM	NAVD 88

**MISS UTILITY**  
THE CONTRACTOR SHALL CALL "MISS UTILITY" AT 1-800-251-7777, 48 HOURS PRIOR TO THE START OF WORK. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL UNDERGROUND UTILITIES IN THE AREA OF PROPOSED WORK ARE LOCATED PRIOR TO COMMENCING CONSTRUCTION WORK. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.  
THE CONTRACTOR IS ALSO RESPONSIBLE FOR LOCATING ALL PRIVATE UTILITIES NOT LOCATED BY MISS UTILITY WITHIN ANY ADJACENT PROPERTY AT THEIR EXPENSE. ALL UTILITIES SHOWN ON THE PLANS ARE APPROVED FOR INFORMATION ONLY AND SHALL BE CONSIDERED APPROXIMATE. MCDPS SHALL NOT BE RESPONSIBLE FOR LOCATING UNDERGROUND UTILITIES, ANY UTILITIES OR OTHER UNDERGROUND FACILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED/REPLACED AT THE CONTRACTOR'S SOLE EXPENSE.

**DESIGN DESIGNATION**

ROADWAY	CLARKSBURG ROAD	MD 12A	MD 355	2040
CONTROLS / YEARS	2016	2040	2016	2040
AVERAGE DAILY TRAFFIC (A.D.T.)	7,875	9,125	10,025	11,400
DESIGN HOURLY VOLUME (D.H.V.)	615	725	890	1,155
DIRECTIONAL DISTRIBUTION	67%	90%	77%	
% TRUCKS = A.D.T.	4%	8%	5%	
% TRUCKS = D.H.V.	3%	6%	4%	
DESIGN SPEED M.P.H.	35 M.P.H.	35 M.P.H.	35 M.P.H.	
MASTER PLAN CLASSIFICATION	ARTERIAL	URBAN LOCAL* (ARTERIAL)	URBAN COLLECTOR* (BUSINESS)	
MAXIMUM ALLOWABLE DEGREE OF CURVE	15' 26 07"	15' 26 07"	15' 26 07"	
MAXIMUM ALLOWABLE GRADE	8%	8%	8%	
ANTICIPATED POSTED SPEED	35 M.P.H.	30 M.P.H.	30 M.P.H.	
DESIGN CRITERIA	AASHTO 2018 A POLICY ON GEOMETRIC DESIGN OF HIGHWAY AND STREETS	AASHTO 2018 A POLICY ON GEOMETRIC DESIGN OF HIGHWAY AND STREETS	AASHTO 2018 A POLICY ON GEOMETRIC DESIGN OF HIGHWAY AND STREETS	
DENSITY (U.S.R.)	URBAN	URBAN	URBAN	

NOTE: A \* DENOTES THE SHA FUNCTIONAL CLASSIFICATION

TECHNICAL REVIEW OF SEDIMENT CONTROL	ADMINISTRATIVE REVIEW	DPS approval of a sediment control or stormwater management plan is required prior to construction. The plan must meet all applicable standards and does not create or imply any right to divert or concentrate runoff onto any adjacent property without that property owner's permission. It does not release the design engineer or other responsible person of professional liability or other responsibility for the adequacy of the design or the effects of the plan or the design of the drainage system as it affects the plan or the design of the drainage system.
REVIEWED DATE	REVIEWED DATE	
TECHNICAL REVIEW OF STORMWATER MANAGEMENT	SMALL LOT DRAINAGE APPROVAL	283849
REVIEWED DATE	REVIEWED DATE	
SEDM. CONTROL PERMIT NO.		283558
SM. FILE NO.		
DESIGNER'S SIGNATURE		
AND OUTFALL RESTORATION		

PS&E SUBMISSION  
SEPTEMBER, 2020



**PROFESSIONAL CERTIFICATION:**  
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.  
LICENSE NO. 33518  
EXPIRATION DATE: 06-29-2020

**R-O-W PLAT NUMBERS**  
PLAT NO. 1127  
PLAT NO. 1128  
PLAT NO. 1129  
PLAT NO. 1131  
PLAT NO. 1132  
PLAT NO. 1133  
PLAT NO. 1134  
PLAT NO. 1135

**SURVEY BOOK NUMBERS**

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Capital Development	Date
Designed by: JAL	Drawn by: JKL
Checked by: JLM	

MD355/CLARKSBURG ROAD INTERSECTION IMPROVEMENTS	
TITLE SHEET	
SCALE: NO SCALE	DATE: SEPTEMBER 2020
DPS SC/SM PERMIT SHEET NO.	01 of 45
C.I.P. Project No.: 508000	01 of 118



## CONVENTIONAL SYMBOLS EXISTING CONSTRUCTION

PROPERTY LINE	
EDGE OF ROADWAY PAVING	
EXISTING GROUND CONTOURS (10')	50
EXISTING GROUND CONTOURS (2')	54
FENCE	
EDGE OF WOODED AREAS	
TREE (FREE STANDING)	
SIGN	
LIGHT POLE	
MAILBOX	M.B.
UTILITY POLE	
STORM DRAIN	
WATER LINE	
ABANDON WATER LINE	
SANITARY	
GAS	
ELECTRICAL HAND BOX - SIGNALS	H.B.
ELECTRIC (OVERHEAD)	
FLOW LINE	
EXISTING ROADWAY	
BASE LINE OR SURVEY LINE	
FIRE HYDRANT	
WETLAND BOUNDARY	
EXISTING PIPE / CULVERT	
EXISTING DROP INLET	
WETLAND	
WETLAND BUFFER	
WATERS OF THE U.S.	WUS
BUSH / TREE	
CONIFEROUS TREE	
HISTORIC BOUNDARY	

## CONVENTIONAL SYMBOLS PROPOSED CONSTRUCTION

CONSTRUCTION	
CURB & GUTTER	
TRAVERSE POINT	
FULL DEPTH CONSTRUCTION	
PAVEMENT WEDGE AND LEVELING	
MILL AND RESURFACE	
PAVEMENT REMOVAL	
CONCRETE PAVEMENT	
HMA SHARED USE PATH	
TRAFFIC BARRIER W BEAM	
APPROXIMATE LIMITS OF CUT AND/OR FILL	
GRADING ELEVATION CONTOURS (10')	50
GRADING ELEVATION CONTOURS (2')	54
LIMIT OF DISTURBANCE	LOD
STORM DRAIN PIPE	
DITCH FLOW LINE	

## ABBREVIATIONS

AASHTO ..... American Association of State Highway Transportation Officials	L.S.T. .... Inlet Sediment Trap	RW or RW ..... Right of Way
ADT ..... Average Daily Traffic	INV ..... Invert	RCP ..... Reinforced Concrete Pipe
AHD ..... Ahead	J.B. .... Junction Box	RCP ..... Reinforced Concrete Pressure Pipe
APPROX ..... Approximate	K ..... K Inlet	R.Q.D. .... Rock Quality Designation
BK ..... Back / Book	L ..... Length	R.M. .... Rootmat
BL ..... Baseline	LF ..... Linear Feet	S ..... South
BT ..... Blumishous	LL ..... Liquid Limit	SAN ..... Sanitary Sewer
B.C. .... Blumishous Concrete	LOD ..... Limit of Disturbance	SB ..... Soil Boring
B.M. .... Bench Mark	LP ..... Low Point	SB ..... Southbound
BOT ..... Bottom	L.P. .... Light Pole	S.D. .... Storm Drain
C.C. .... Center of Curve	LT ..... Left	S.D.D. .... Surface Drain Ditch
CAP ..... Corrugated Aluminum Pipe	MAC ..... Macadam	SE ..... Super Elevation
CAPA ..... Corrugated Aluminum Pipe Arch	MB ..... Mail Box	SF ..... Silt Fence
CATV ..... Cable Television	M.C. .... Moisture Content	SF ..... Square Feet
C.B.S. .... California Bearing Ratio	M.D.D. .... Maximum Dry Content	SHA ..... State Highway Administration
CL ..... Centerline	MAX ..... Maximum	SHT ..... Sheet
CL ..... or CL ..... Centerline	MC ..... Montgomery County	SPP ..... Structural Steel Plate Pipe
CL ..... or CL ..... Centerline	MCDDOT ..... Montgomery County Department of Transportation	SPPA ..... Structural Steel Plate Pipe Arch
CLF ..... Chainlink Fence	MH ..... Manhole	S.P.T. .... Standard Penetration Testing
CMF ..... Corrugated Metal Pipe	MOD ..... Modified	SRP ..... Steel Spiral Rib Pipe
C.O. .... Cleanout	MIN ..... Minimum	SRPA ..... Steel Spiral Rib Pipe Arch
COMB ..... Combination	M-NCPCC, Maryland - National Capital Park and Planning Commission	SSD ..... Stopping Sight Distance
CONC ..... Concrete	N ..... North	SFS ..... Super Silt Fence
CONSTR ..... Construction	NB ..... Northbound	STD ..... Standard
COR ..... Corner	NE ..... Northeast	STA ..... Station
CORR ..... Corrosion	N.P. .... Non-Plastic	SO ..... Single Opening
CSP ..... Corrugated Steel Pipe - Aluminum Type 2	O.C. .... On Center	SY ..... Square Yards
CSPA ..... Corrugated Steel Pipe Arch - Aluminum Type 2	OHE ..... Overhead Electric	SWM ..... Stormwater Management
DC ..... Degree of Curve	O.M. .... Optimum Moisture	T ..... Tangent
D.H.V. .... Design Hourly Volume	PAV.T. .... Pavement	T ..... Telephone
D.I. .... Drop Inlet	PB ..... Pavement Boring	T.C. .... Top of Curb
DIA ..... Diameter	PC ..... Point of Curvature	T.G. .... Top of Grate
D.O. .... Double Opening	P.C. .... Point of Compound Curvature	T or TL ..... Traverse Line
E ..... East	PC ..... Point of Crown	T.M. .... Top of Manhole
E ..... Electric	PGE ..... Profile Grade Elevation	T.R. .... Top of Rim
E ..... External Distance	P.G.E. .... Profile Ground Elevation	TRAV ..... Traverse
EA ..... Each	P.G.L. .... Profile Grade Line	TP ..... Test Pit
EB ..... Eastbound	PGL ..... Profile Ground Line	TS ..... Temporary Swale
ELEV ..... Elevation	PR ..... Point of Rotation	T.S. .... Top of Structure
ES ..... End Section	PI ..... Plasticity Index	T.S. .... Topsoil
EW ..... End Wall	PI ..... Point of Intersection	TYP ..... Typical
EX or EXIST ..... Existing	POC ..... Point On Curve	U.D. .... Under Drain
FT ..... Feet	POI ..... Point On Tangent	U.G. .... Underground
F or FL ..... Flowline	PPWP ..... Polypropylene Profile Wall Pipe	U.P. .... Utility Pole
FB ..... Foundation Boring	PROP ..... Proposed	USA ..... United States Department of Agriculture
F.B.D. .... Flat Bottom Ditch	PRC ..... Point of Reverse Curve	VC ..... Vertical Clearance
FWD ..... Forward	PT ..... Point of Tangency	V.C.L. .... Vertical Curve Length
G ..... Gas	PVC ..... Point of Vertical Curve	W ..... Water
G.V. .... Gas Valve	PVC ..... Polyvinyl Chloride	W ..... West
H.B. .... Handbox	PVI ..... Point of Vertical Intersection	WB ..... Westbound
HDPPE ..... High Density Polyethylene	PVR ..... Point of Vertical Reverse Curve	WB ..... Wetland Buffer
HW ..... Headwall	PVT ..... Point of Vertical Tangency	W.M. .... Water Meter
HERCE ..... Horizontal Elliptical Reinforced Concrete Pipe	R ..... Radius	WSSC ..... Washington Suburban Sanitary Commission
HP ..... High Point	RT ..... Right	W.S. .... Wrapped Steel
I ..... Inlet	RCP ..... Reinforced Concrete Pipe	WUS ..... Waters of the United States
IN ..... Inch		W.V. .... Water Valve

## INDEX OF SHEETS

SHEET NO.	DWG NO.	TITLE	DPS SC/SWM NO.
1	TI-01	TITLE SHEET	1
2	GN-01	GENERAL NOTES AND ABBREVIATIONS	2
3	GN-02	GENERAL NOTES	3
4-6	TS-01 TO TS-03	TYPICAL SECTIONS	N/A
7	PD-01	PAVEMENT DETAILS	N/A
8	DE-01	DETAILS SHEET	N/A
9	GS-01	GEOMETRY PLAN	N/A
10-12	ID-01 TO ID-03	INTERSECTION DETAIL PLANS	N/A
13	LA-00	LAYOUT SHEET	N/A
14-23	PS-01 TO PS-10	ROADWAY PLAN SHEETS	N/A
24-25	HP-01 TO HP-02	PROFILE SHEETS	N/A
26-31	DP-01 TO DP-06	DRAINAGE PROFILE SHEETS	4-9
32-37	DD-01 TO DD-06	DRAINAGE DETAILS	10-15
38-40	SW-01 TO SW-03	STORMWATER MANAGEMENT DETAILS - SUBMERGED GRAVEL WETLAND 1-1	16-18
41	SW-04	STORMWATER MANAGEMENT DETAILS - MICRO-BIORETENTION 1-2	19
42	SW-05	STORMWATER MANAGEMENT DETAILS - MICRO-BIORETENTION 2-1	20
43	ES-01	EROSION & SEDIMENT CONTROL GENERAL NOTES	21
44	ES-02	EROSION & SEDIMENT CONTROL - SEQUENCE OF CONSTRUCTION	22
45-46	ES-03 TO ES-04	EROSION & SEDIMENT CONTROL DETAILS	23-24
47-50	ES-100 TO ES-103	EROSION & SEDIMENT CONTROL PHASE 1 PLANS	25-28
51-53	ES-200 TO ES-202	EROSION & SEDIMENT CONTROL PHASE 2 PLANS	29-31
54-55	ES-300 TO ES-301	EROSION & SEDIMENT CONTROL PHASE 3 PLANS	32-33
56-62	ES-400 TO ES-406	EROSION & SEDIMENT CONTROL PHASE 4 PLANS	34-40
63	LD-00	LANDSCAPE GENERAL NOTES	41
64-67	LD-01 TO LD-04	LANDSCAPE DETAILS SHEETS	42-45
68-77	LP-01 TO LP-10	LANDSCAPE PLAN SHEETS	N/A
78-83	ST-101 TO ST-106	STRUCTURES PLANS	N/A
84-90	MT-01 TO MT-07	MAINTENANCE OF TRAFFIC PLAN	N/A
91-92	SG-01 TO SG-02	TRAFFIC SIGNAL PLANS	N/A
93	SN-00	SIGNING AND MARKING GENERAL NOTES AND PROPOSALS	N/A
94-103	SN-01 TO SN-110	SIGNING AND MARKING PLAN SHEETS	N/A
104-105	SN-111 TO SN-112	SIGNING AND MARKING INDEX OF QUANTITIES	N/A
106	LT-00	LIGHTING GENERAL NOTES AND DETAILS	N/A
107-114	LT-2.1 TO LT-2.8	LIGHTING PLAN SHEETS	N/A
115	LT-03	LIGHTING SCHEDULE	N/A
116	GR-01	GRADING TABLE AND SUMMARY OF EARTHWORK	N/A
117-119	BL-01 TO BL-03	BORING LOGS	N/A



MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND				MD355/CLARKSBURG ROAD INTERSECTION IMPROVEMENTS GENERAL NOTES AND ABBREVIATIONS		
RECOMMENDED FOR APPROVAL Chief, Design Section APPROVED _____ Date _____				SCALE : NOT TO SCALE DATE: SEPTEMBER 2020 GN-01		
Chief, Division of Capital Development APPROVED _____ Date _____				DPS SC/SWM PERMIT SHEET NO. 02 of 45 C.I.P. Project No. 508000 02 of 119		
NO.	REVISION	DATE	BY	Designed by: JMF	Drawn by: JSC	Checked by: JMJ

## GENERAL NOTES FOR WORK ON M-NCPPC PROPERTY

1. ALL NOTES SHOWN ON THE DRAWINGS ARE TYPICAL UNLESS OTHERWISE SHOWN OR NOTED.
2. A PRE-CONSTRUCTION MEETING SHALL BE CONDUCTED BY THE M-NCPPC CONSTRUCTION MANAGER PRIOR TO START OF ANY CONSTRUCTION RELATED ACTIVITY AT THE PROJECT SITE. CONTACT JAY CHILDS (301-495-2574) TO SCHEDULE.
3. NO CLEARING, GRUBBING, OR GRADING SHALL COMMENCE UNTIL THE LIMITS OF DISTURBANCE ARE STAKED IN THE FIELD AND ARE APPROVED BY THE M-NCPPC CONSTRUCTION MANAGER AS WELL AS ANY OTHER APPLICABLE PERMITTING AGENCIES. AFTER THE LIMITS ARE APPROVED, NO DISTURBANCE WILL BE ALLOWED OUTSIDE OF THE APPROVED LIMITS. ANY ITEMS DISTURBED OUTSIDE OF THE APPROVED LIMITS, WILL BE REPLACED AT THE CONTRACTORS OWN EXPENSE.
4. THE ENTIRE LOD SHALL BE FENCED AS DIRECTED BY THE PARK CONSTRUCTION MANAGER. WHERE SILT FENCE, SUPER SILT FENCE, OR TREE PROTECTION FENCE IS NOT REQUIRED, ORANGE BLAZE SAFETY FENCE MAY BE USED.
5. FIELD RUN TOPOGRAPHIC SURVEY PROVIDED BY MERCADO CONSULTANTS, INC. ON AUGUST 2016. SURVEY IS IN STATE PLANE DATUM NAD83/91 AND NAVD88 BOUNDARIES SHOWN ARE DERIVED FROM DEED AND PLAT INFORMATION.
6. M-NCPPC RESERVES THE RIGHT TO ADJUST AND MODIFY THE LIMITS OF DISTURBANCE IN THE FIELD TO MINIMIZE IMPACTS OF WORK WITH APPROVAL FROM THE DPS INSPECTOR.
7. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING SAFE FACILITY ACCESS THROUGHOUT CONSTRUCTION AND PROVIDE ANY APPROPRIATE DETOURS, TEMPORARY FACILITIES, AND SIGNAGE AS REQUESTED BY THE M-NCPPC CONSTRUCTION MANAGER.
8. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN ON THE DRAWINGS AND REPORT TO M-NCPPC'S CONSTRUCTION MANAGER ANY ERROR OR INCONSISTENCY WITH THE ACTUAL CIRCUMSTANCES IN THE FIELD BEFORE COMMENCING WORK.
9. THE CONTRACTOR SHALL STAKE-OUT THE LOCATION OF FACILITIES AND MEET WITH THE M-NCPPC CONSTRUCTION MANAGER TO REVIEW THE LOCATION. M-NCPPC RESERVES THE RIGHT TO ADJUST THE LOCATIONS AS NECESSARY WITH DPS APPROVAL.
10. SITE RESTORATION AND REPAIR/REPLACEMENT OF DAMAGED INFRASTRUCTURE SHALL BE IN ACCORDANCE WITH M-NCPPC DETAILS, STANDARDS, AND SPECIFICATIONS AT THE DIRECTION OF THE M-NCPPC INSPECTOR AT NO COST TO M-NCPPC.
11. TREE PROTECTION FENCING SHALL BE PER TREE PROTECTION FENCE DETAIL SHOWN ON PLANS. TREE PROTECTION FENCE SHALL BE INSTALLED BY THE CONTRACTOR AND INSPECTED BY M-NCPPC CONSTRUCTION MANAGER PRIOR TO START OF CONSTRUCTION.
12. ALL PLANTING SUBSTITUTIONS SHALL BE APPROVED BY M-NCPPC CONSTRUCTION MANAGER. PLANT MATERIALS AND LOCATIONS MUST BE INSPECTED BY M-NCPPC PRIOR TO INSTALLATION.
13. PROVIDE DEER PROTECTION FENCING PER M-NCPPC'S SPECIFICATIONS FOR ALL LANDSCAPE AND REFORESTATION TREES AND SHRUBS TO PREVENT DAMAGE FROM DEER. TUBEX SHALL NOT BE USED AS A SUBSTITUTE.
14. STAGING AREAS AND ACCESS ROUTES SHALL BE DETERMINED IN FIELD AND APPROVED BY THE M-NCPPC CONSTRUCTION MANAGER TO MINIMIZE IMPACTS.
15. M-NCPPC MAY INSPECT CONDITION OF TREES THROUGHOUT CONSTRUCTION AND REQUIRE REPAIR, REMOVAL, AND/OR REPLACEMENT OF ANY DAMAGED TREES AT NO COST TO M-NCPPC.
16. CONSTRUCTION MANAGER MAY AUTHORIZE SPECIAL TREE AND TREE ROOT PROTECTION MEASURES OTHER THAN SHOWN ON THESE PLANS DURING CONSTRUCTION. THESE MAY INCLUDE, BUT NOT BE LIMITED TO 12-INCH THICK MULCH LAYER ACCESS BEDDING, MATTING, ADDITIONAL TREE PROTECTION FENCING, AND ADDITIONAL SEDIMENT CONTROLS.
17. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR IDENTIFYING THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION RELATED WORK AND SHALL COORDINATE THE WORK WITH M-NCPPC CONSTRUCTION MANAGER. THE CONTRACTOR SHALL MAINTAIN PROPER CLEARANCES BETWEEN ALL EXISTING AND PROPOSED UTILITIES AT ALL TIMES AS REQUIRED BY THE UTILITY COMPANIES.
18. UTILITIES SHOWN HEREON ARE BASED ON BEST AVAILABLE INFORMATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACCURACY OF THIS INFORMATION. ANY COST ASSOCIATED WITH THE REPAIR OR REPLACEMENT OF UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ANY DAMAGE MADE TO THE UTILITY SHALL BE REPAIRED ON AN EMERGENCY BASIS PER THE LATEST SPECIFICATIONS OF THE CONCERNED UTILITY AND COMPLETED WORK SHALL BE APPROVED BY THE CONCERNED UTILITY. ANY DAMAGE SHALL BE REPORTED AND DOCUMENTED IMMEDIATELY TO THE M-NCPPC CONSTRUCTION MANAGER. REPAIR APPROVALS SHALL BE PROVIDED TO THE M-NCPPC CONSTRUCTION MANAGER.
19. DISCREPANCIES, OMISSIONS, AMBIGUITIES, OR CONFLICTS IN OR AMONG THE CONSTRUCTION DOCUMENTS OR DOUBT ABOUT THEIR MEANING SHALL BE BROUGHT TO THE ATTENTION OF THE MNCPPC CONSTRUCTION MANAGER FOR DIRECTION BEFORE PROCEEDING WITH WORK. IF CONFLICTS EXIST, THE MOST STRINGENT REQUIREMENT SHALL GOVERN UNLESS OTHERWISE STATED IN WRITING BY THE MNCPPC CONSTRUCTION MANAGER.
20. PRIOR TO VEGETATIVE STABILIZATION, ALL DISTURBED AREAS MUST BE TOPSOILED PER THE MARYLAND DEPARTMENT OF THE ENVIRONMENT'S "STANDARDS AND SPECIFICATIONS FOR TOPSOIL". IF ON-SITE MATERIALS DO NOT MEET REQUIREMENTS OF TOPSOIL, COORDINATE WITH M-NCPPC REGARDING TILLING-IN OF CERTIFIED COMPOST TO ON-SITE SOILS IN ORDER TO MEET SPECIFICATIONS.
21. PAVEMENT REMOVAL SHALL INCLUDE REMOVAL OF GRAVEL SUBBASE AND SCARIFICATION OF SUBGRADE, UNLESS OTHERWISE DIRECTED BY M-NCPPC.
22. THIS SITE IS LOCATED IN THE SENECA CREEK WATERSHED OF MONTGOMERY COUNTY. RUNOFF FROM THIS SITE DRAINS INTO AN UNNAMED TRIBUTARY OF TENNILE CREEK.

## GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS OF THE MARYLAND STATE HIGHWAY ADMINISTRATION, MONTGOMERY COUNTY, AND THE WASHINGTON SUBURBAN SANITARY COMMISSION.
2. TYPES OF STORM DRAIN STRUCTURES REFER TO THE "DESIGN STANDARDS" OF MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION, UNLESS OTHERWISE NOTED.
3. WHEN THE DROP ON THE MAIN LINE THROUGH A STORM DRAIN STRUCTURE CAN BE ACCOMMODATED BY AN INVERT SLOPE OF 1.5:1 OR FLATTER, A ROUNDED CHANNEL LINED WITH SEWER BRICK ON EDGE SHALL BE BUILT TO THE CROWN OF THE PIPES. WHEN THE INVERT SLOPES WOULD BE GREATER THAN 1.5:1 A SPECIAL INVERT SHALL BE CONSTRUCTED AS NOTED.
4. ALL STORM DRAIN PIPE SHALL BE INSTALLED WITH CLASS "C" BEDDING UNLESS OTHERWISE SPECIFIED.
5. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS TO STORM DRAIN STRUCTURES, WHEN NECESSARY, TO MEET EXISTING CONDITIONS, AS APPROVED BY MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION'S PROJECT INSPECTOR.
6. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATIONS AND ELEVATIONS OF THE LINES BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS, WELL IN ADVANCE OF TRENCHING. IF CLEARANCES ARE LESS THAN SHOWN OR SIX (6) INCHES, WHICHEVER IS LESS, CONTACT MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION'S PROJECT INSPECTOR AND THE APPROPRIATE UTILITY OWNER BEFORE PROCEEDING WITH CONSTRUCTION.
7. REPAIRS TO UTILITIES OR PROPERTY DAMAGE AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE OR METHOD OF OPERATION MUST BE MADE AT THE CONTRACTOR'S EXPENSE BEFORE PROCEEDING WITH CONSTRUCTION.
8. CLEARING IS TO BE LIMITED TO THE LIMIT OF DISTURBANCE (LOD) AS SHOWN ON THE PLANS.
9. ALL GRADING SHALL BE DONE IN SUCH A MANNER AS TO PROVIDE POSITIVE DRAINAGE.
10. ALL DISTURBED AREAS TO BE SEEDED AND MULCHED UNLESS OTHERWISE NOTED.
11. THE CONTRACTOR SHALL COMPLY WITH AND EXECUTE THE ROADSIDE TREE PERMIT AS OBTAINED BY GANNETT FLEMING, INC. INCLUDING BUT NOT LIMITED TO, MAINTENANCE, TREATMENT, PLANTING, REMOVAL, OR ROOT CUTTING ON TREES WITHIN THE PUBLIC RIGHT OF WAY. PERMIT REQUIREMENTS MAY BE OBTAINED FROM THE DEPARTMENT OF NATURAL RESOURCES, MARYLAND FOREST, PARK AND WILDLIFE SERVICE, TELEPHONE 301-854-6060.
12. THE CONTRACTOR SHALL CONSTRUCT ALL DRIVEWAY TIE-INS IN-KIND TO THE LIMIT SHOWN ON THE PLANS.
13. CONTRACTOR MUST CONFORM TO THE LATEST STATE AND FEDERAL ADA STANDARDS
14. FOR CONSTRUCTION, HORIZONTAL SHALL BE BASED ON NAD 83/91 DATUM AND VERTICAL SHALL BE BASED ON NAVD 1988 DATUM.
15. CALL "MISS UTILITY" AT 1-800-257-7777 FORTY-EIGHT (48) HOURS PRIOR TO BEGINNING EXCAVATION TO DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES.
16. THE LOCATION OF RIGHT-OF-WAY AND EASEMENT LINES SHOWN ON THE PLANS ARE FOR INFORMATION AND GUIDANCE ONLY. NO GUARANTEE IS MADE AS TO THE ACCURACY OF SAID LOCATIONS. PLEASE REFER TO THE APPROPRIATE RIGHT-OF-WAY PLATS.
17. ALL UTILITY POLES NOTED FOR RELOCATION SHALL BE PERFORMED BY OTHERS.
18. THE CONTRACTOR SHALL INSTALL PEDESTRIAN DETECTABLE WARNING SURFACES AT ALL SIDEWALK & PEDESTRIAN CROSSINGS. LOCATIONS AS DIRECTED BY THE ENGINEER. THE WARNING SURFACES SHALL BE IN CONFORMANCE WITH ADA REQUIREMENTS AND THE PROJECT SPECIAL PROVISION.
19. THE DESIGN FOR THIS PROJECT HAS INCORPORATED FACILITIES FOR THE ELDERLY AND HANDICAPPED IN COMPLIANCE WITH STATE AND FEDERAL LEGISLATION.
20. ALL PROPOSED PERMANENT CURB RAMPS ALONG THE ENTIRE LENGTH OF FREDERICK ROAD BIKE PATH SHALL BE A MINIMUM OF 10 FEET WIDE.
21. IN LOCATIONS WHERE THE PROPOSED SHARED USE PATH OR SIDEWALK ENDS AT EXISTING SIDEWALKS, TRAILS OR PATHS, THEY SHALL BE FLUSH WITH EXISTING GRADES AND ELEVATIONS.
22. ALL PROPOSED BUS STOPS SHALL BE ADA COMPLIANT.
23. THE CONTRACTOR SHALL PROVIDE ALL SHOP DRAWINGS DURING CONSTRUCTION.

### SURVEY

1. HORIZONTAL DATUM: MARYLAND STATE PLANE COORDINATE SYSTEM  
VERTICAL DATUM: NAD 83/91  
SURVEY UNIT: NAVD 1988  
SURVEY FEET
2. DATE OF SURVEY: AUGUST 2016  
SURVEY PERFORMED BY: MERCADO CONSULTANTS INC.  
17830 NEW HAMPSHIRE AVE. SUITE 200  
ASHTON, MD 20861  
PHONE: 301-260-0090  
FAX: 301-260-0018
3. ALL DIMENSIONS, STATIONS, AND ELEVATIONS ARE IN SURVEY FEET UNLESS OTHERWISE SHOWN.  
THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING TOPOGRAPHIC FEATURES AND ELEVATIONS, ABOVE AND BELOW, PRIOR TO BEGINNING CONSTRUCTION IN THE FIELD.  
THE CONTRACTOR SHALL BRING TO THE NOTICE OF THE ENGINEER ANY DISCREPANCY BETWEEN THE PLANS AND ACTUAL FIELD CONDITIONS.
4. A BOUNDARY SURVEY WAS PERFORMED IN 2017 TO ESTABLISH RIGHT-OF-WAY LINES, PROPERTY LINES, OWNERS, AND ADDRESSES. PLEASE REFER TO THE APPROPRIATE RIGHT-OF-WAY PLATS.

### UTILITIES

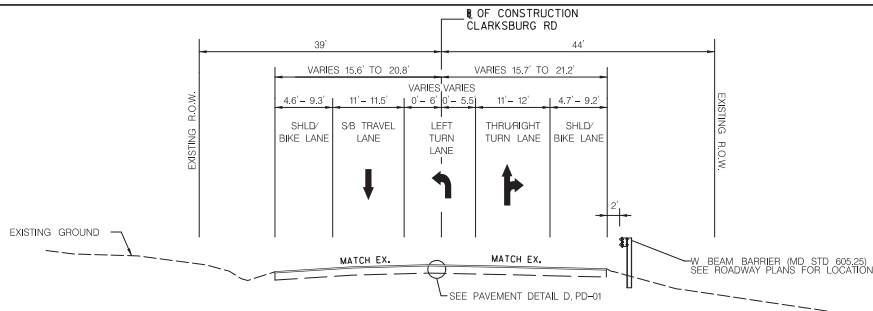
1. DATE OF INVESTIGATION: OCTOBER 2018  
UTILITY INVESTIGATION PERFORMED BY: CARDNO  
5212 COLLEY AVENUE  
NORFOLK, VA 23508  
PHONE: 757-227-3882  
  
UTILITY TEST HOLE INVESTIGATION (QUALITY LEVEL A AND B) WAS PERFORMED FOR THIS PROJECT.
2. THE CONTRACTOR SHALL NOTIFY MISS UTILITY (CALL 811 OR 800-257-7777) 48 HOURS BUT NOT MORE THAN 10 DAYS PRIOR TO ANY EXCAVATION WORK.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES PRIOR TO BEGINNING EXCAVATION.
4. THE FOLLOWING UTILITY COMPANIES SHALL ALSO BE SPECIFICALLY NOTIFIED SIX WEEKS PRIOR TO THE BEGINNING OF CONSTRUCTION:  
POTOMAC EDISON, EDGARDO MARTINEZ, 301-694-4486  
WASHINGTON GAS, ANDREW C. KING, 703-750-4793  
COMCAST, DARRYL RENNER, 301-625-3500  
WASHINGTON SUBURBAN SANITARY COMMISSION, JEFF LOHRMANN, 301-206-8744  
VERIZON, CHIP LAMBERT, 301-282-7039
5. NO MECHANIZED EQUIPMENT SHALL BE USED FOR EXCAVATION IN CLOSE PROXIMITY TO UTILITIES. CONTRACTOR SHALL HAND DIG ONLY.
6. THE CONTRACTOR IS RESPONSIBLE FOR SUPPORTING AND PROTECTING EXISTING UTILITIES AS DIRECTED BY THE ENGINEER AND UTILITY OWNER. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES TO EXISTING UTILITIES DUE TO NEGLIGENCE.

### GEOTECHNICAL INVESTIGATION

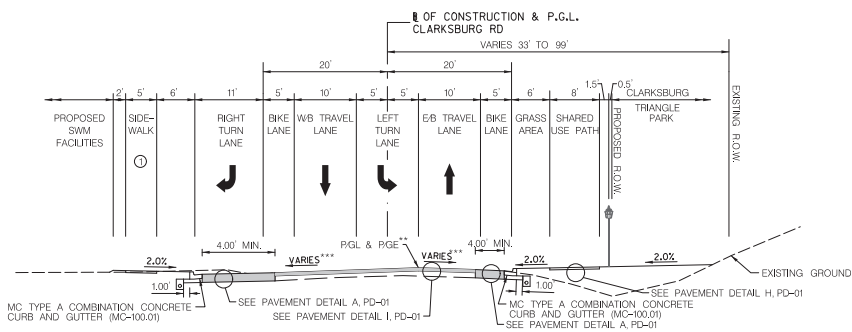
1. GEOTECHNICAL INVESTIGATION AND REPORT, DATED JULY 2017, PREPARED BY:  
EBA ENGINEERING  
4813 SETON DRIVE  
BALTIMORE, MD 21215



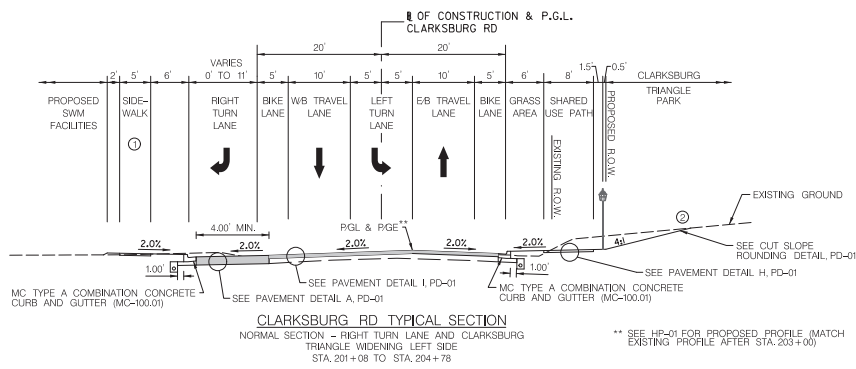
				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND		MD355/CLARKSBURG ROAD INTERSECTION IMPROVEMENTS GENERAL NOTES	
				RECOMMENDED FOR APPROVAL			
				Chief, Design Section	Date		
				APPROVED			
				Chief, Division of Capital Development	Date		
				Designed by: <u>JLF</u>		Drawn by: <u>JSK</u>	
				Checked by: <u>JSK</u>			
NO.	REVISION	DATE	BY	SCALE : NOT TO SCALE DATE: SEPTEMBER 2020 GN-02			
				DPS SC/SM PERMIT SHEET NO. <u>03</u> of <u>45</u>			
				C.I.P. Project No. <u>508000</u> <u>03</u> of <u>118</u>			



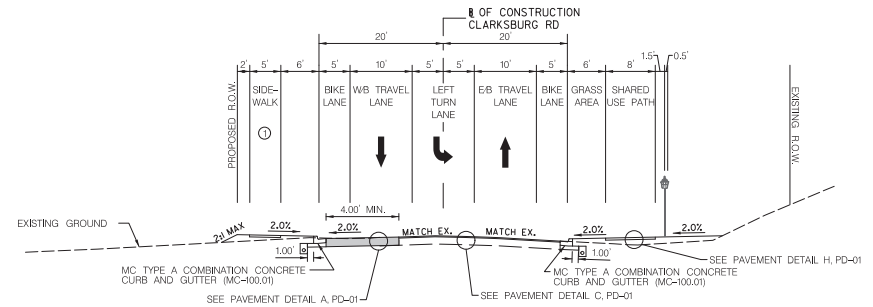
**MD 121A TYPICAL SECTION**  
NORMAL SECTION - RESURFACING  
STA. 191+50 TO STA. 200+00



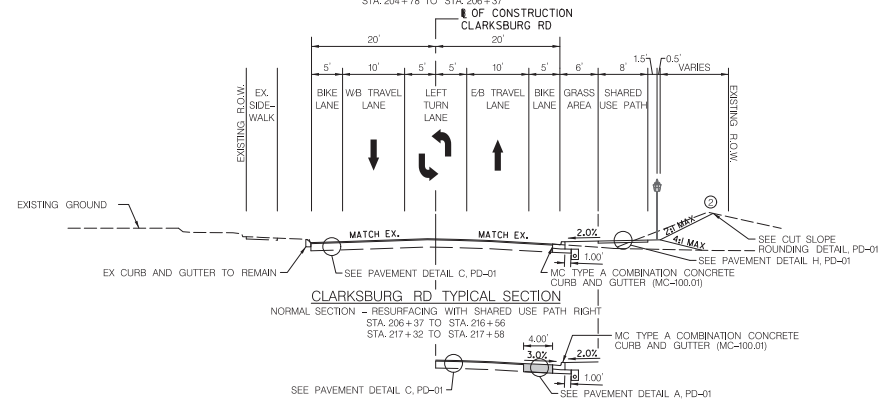
**CLARKSBURG RD TYPICAL SECTION**  
NORMAL SECTION - RIGHT TURN LANE AND CLARKSBURG  
TRIANGLE WIDENING BOTH SIDES  
STA. 200+00 TO STA. 201+08  
\*\* SEE HP-01 FOR PROPOSED PROFILE  
\*\*\* SEE INTERSECTION DETAIL ID-01 FOR CURB ELEVATIONS



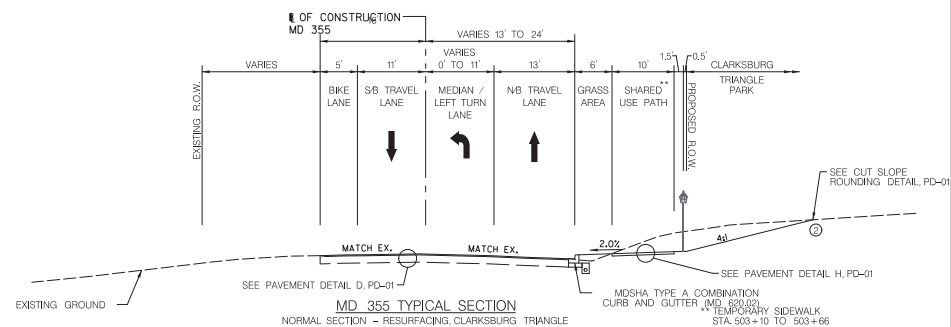
**CLARKSBURG RD TYPICAL SECTION**  
NORMAL SECTION - RIGHT TURN LANE AND CLARKSBURG  
TRIANGLE WIDENING LEFT SIDE  
STA. 201+08 TO STA. 204+78  
\*\* SEE HP-01 FOR PROPOSED PROFILE (MATCH  
EXISTING PROFILE AFTER STA. 203+00)



**CLARKSBURG RD TYPICAL SECTION**  
NORMAL SECTION - CLARKSBURG TRIANGLE WIDENING LEFT  
STA. 204+78 TO STA. 206+37



**CLARKSBURG RD TYPICAL SECTION**  
NORMAL SECTION - RESURFACING WITH RECONSTRUCTION RIGHT  
STA. 216+56 TO STA. 217+32



**MD 355 TYPICAL SECTION**  
NORMAL SECTION - RESURFACING, CLARKSBURG TRIANGLE

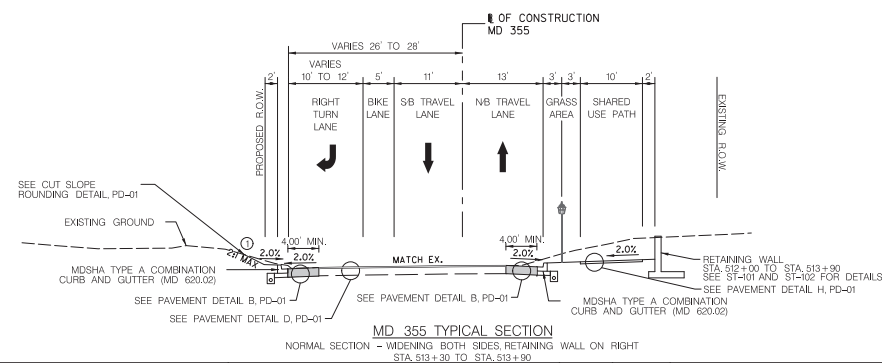
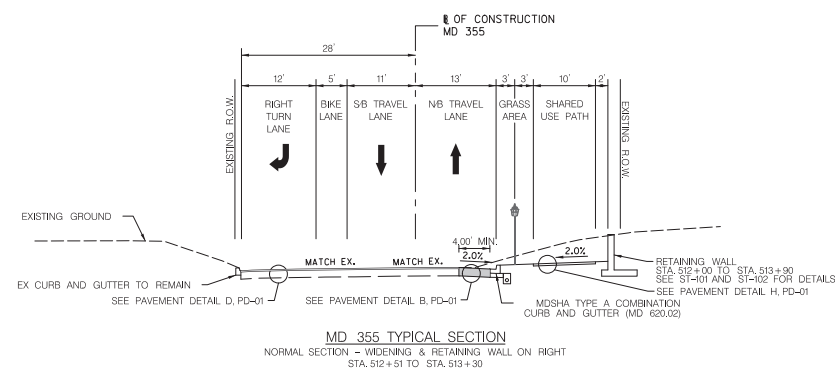
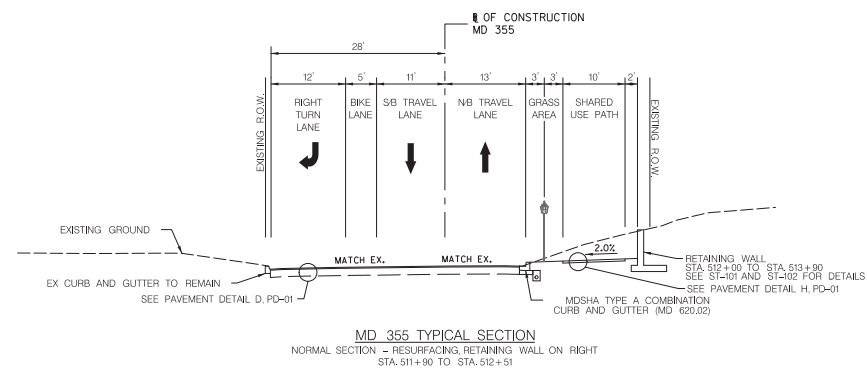
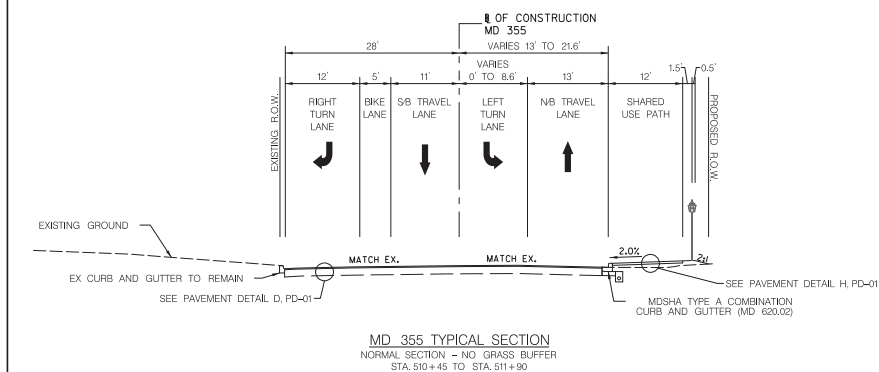
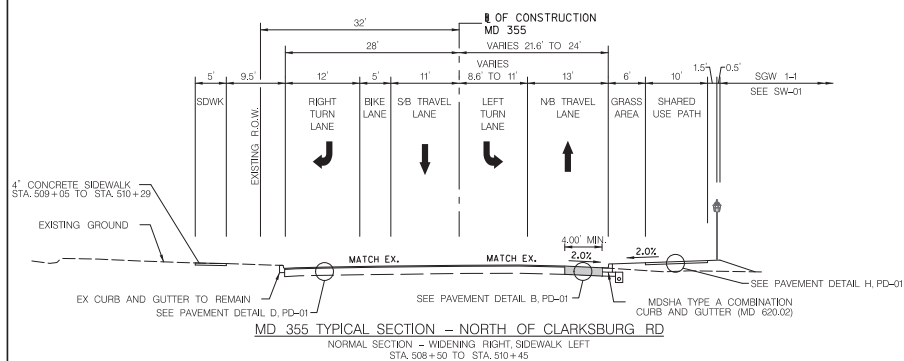
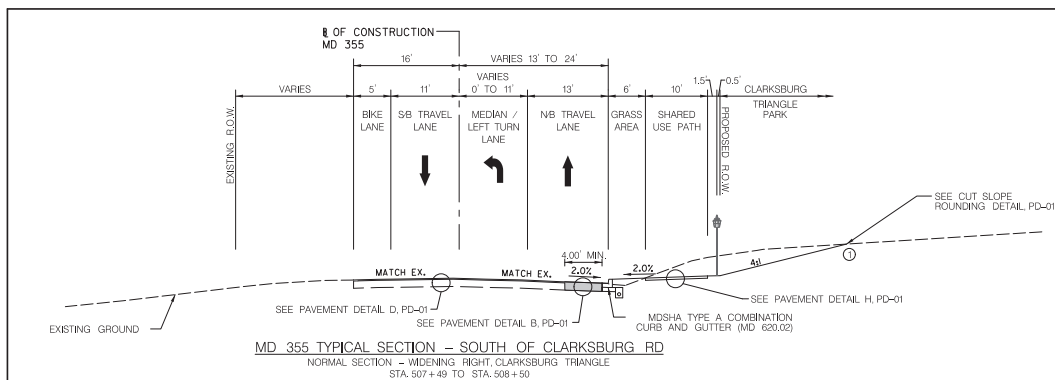
**GENERAL KEY:**

- ① CONCRETE SIDEWALK, SEE STD. MC-110.01
- ② SEE PD-01 FOR SLOPE ROUNDING DETAIL



MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND				<b>MD355/CLARKSBURG ROAD INTERSECTION IMPROVEMENTS TYPICAL SECTIONS</b>	
RECOMMENDED FOR APPROVAL Chief, Design Section _____ Date _____ Chief, Division of Capital Development _____ Date _____ Designed by: <u>JH</u> Drawn by: <u>JK</u> Checked by: <u>SL</u>				SCALE: 1" = 10' DATE: SEPTEMBER 2020 <b>TS-01</b> DPS SC/SUM PERMIT SHEET NO. <u>N/A</u> of <u>N/A</u> C.I.P. Project No. <u>508000</u> <u>04</u> of <u>118</u>	
NO.	REVISION	DATE	BY		





#### GENERAL KEY:

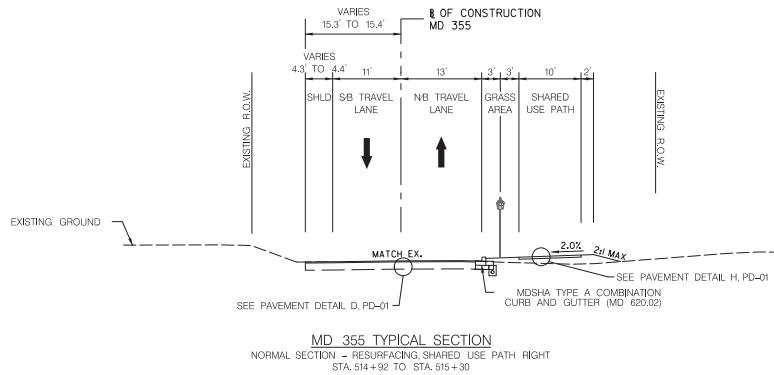
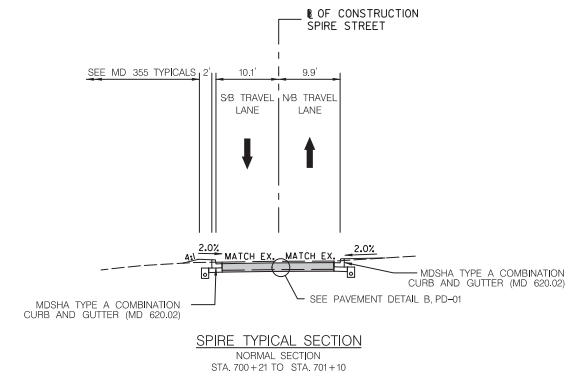
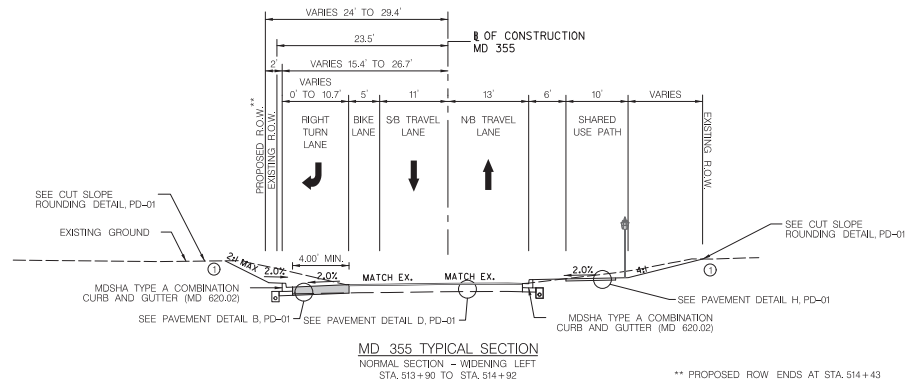
① SEE PD-01 FOR SLOPE ROUNDING DETAIL

#### GENERAL NOTES:

1. SEE PAVEMENT DETAIL FOR UNDERDRAIN INFORMATION



				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND				MD355/CLARKSBURG ROAD INTERSECTION IMPROVEMENTS TYPICAL SECTIONS			
				RECOMMENDED FOR APPROVAL							
				Chief, Design Section				Date			
				APPROVED							
				Chief, Division of Capital Development				Date			
				Designed by: <u>JTW</u>				Drawn by: <u>JKK</u>			
								Checked by: <u>MLU</u>			
								DPS SC/SUM PERMIT SHEET NO. <u>N/A</u> of <u>N/A</u>			
								C.I.P. Project No. : <u>500000</u> <u>05</u> of <u>119</u>			
NO.				REVISION				DATE			
				BY							



#### GENERAL KEY:

① SEE PD-01 FOR SLOPE ROUNDING DETAIL

#### GENERAL NOTES:

1. SEE PAVEMENT DETAIL FOR UNDERDRAIN INFORMATION



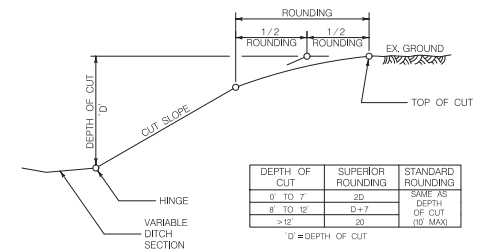
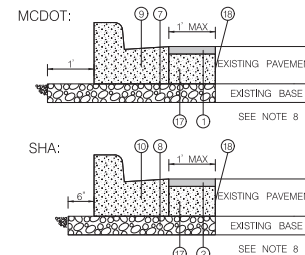
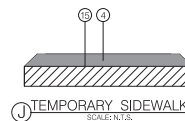
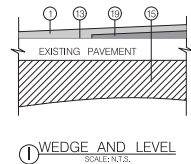
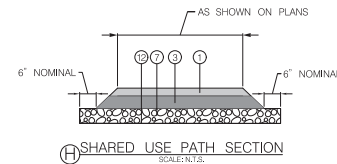
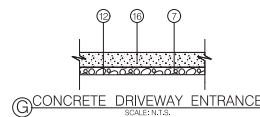
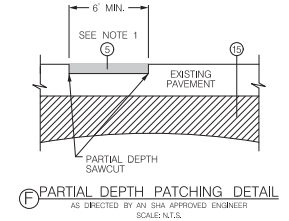
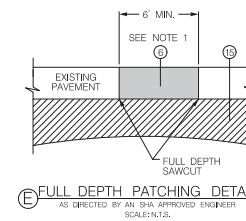
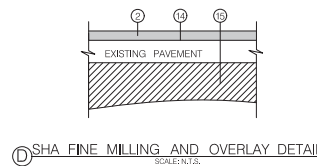
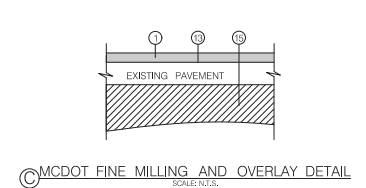
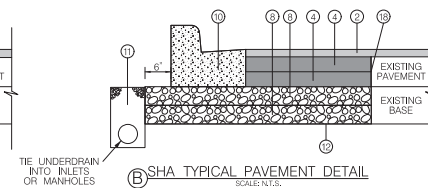
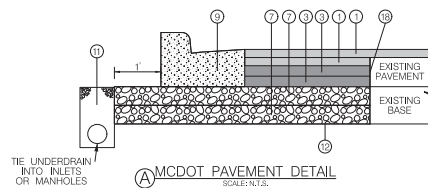
<p>MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND</p>				<p>MD355/CLARKSBURG ROAD INTERSECTION IMPROVEMENTS TYPICAL SECTIONS</p>			
<p>RECOMMENDED FOR APPROVAL</p>				<p>SCALE : 1" = 10'      DATE: SEPTEMBER 2020      TS-03</p>			
<p>Chief, Design Section</p>		<p>Date</p>		<p>DPS SC/SMP PERMIT SHEET NO. <u>N/A</u> of <u>N/A</u></p>			
<p>APPROVED</p>		<p>Date</p>		<p>C.I.P. Project No. <u>508000</u>      <u>06</u> of <u>119</u></p>			
<p>Chief, Division of Capital Development</p>		<p>Date</p>					
<p>Designed by: <u>JH</u></p>		<p>Drawn by: <u>JSK</u></p>					
<p>NO.</p>		<p>REVISION</p>					
<p>DATE</p>		<p>BY</p>					
<p>Designed by: <u>JH</u></p>		<p>Drawn by: <u>JSK</u></p>					
<p>DATE</p>		<p>BY</p>					

## PAVEMENT LEGEND

- ① 1.5" SUPERPAVE ASPHALT MIX 9.5MM FOR SURFACE, PG 64S-22, LEVEL 2
- ② 2.0" SUPERPAVE ASPHALT MIX 9.5MM FOR SURFACE, PG 64S-22, LEVEL 2
- ③ 2.5" SUPERPAVE ASPHALT MIX 19.0MM FOR BASE, PG 64S-22, LEVEL 2
- ④ 3.0" SUPERPAVE ASPHALT MIX 19.0MM FOR BASE, PG 64S-22, LEVEL 2
- ⑤ PARTIAL DEPTH PATCH
  - MD 355: 6" SUPERPAVE ASPHALT MIX 19.0MM FOR PARTIAL-DEPTH PATCH, PG 64S-22, LEVEL 2
  - OR TO TOP OF CONCRETE PAVEMENT WHICHEVER COMES FIRST
  - MD 121A: 5" SUPERPAVE ASPHALT MIX 19.0MM FOR PARTIAL-DEPTH PATCH, PG 64S-22, LEVEL 2
- ⑥ FULL DEPTH PATCH
  - MD 355: 8" SUPERPAVE ASPHALT MIX 19.0MM FOR FULL-DEPTH PATCH, PG 64S-22, LEVEL 2 OVER
  - 9" PLAIN PORTLAND CEMENT CONCRETE PAVEMENT, MIX 7
  - OR MATCH EXISTING
  - MD 121A: 8" SUPERPAVE ASPHALT MIX 19.0MM FOR FULL-DEPTH PATCH, PG 64S-22, LEVEL 2
  - OR MATCH EXISTING
- ⑦ 4.0' GRADED AGGREGATE BASE COURSE
- ⑧ 6.0' GRADED AGGREGATE BASE COURSE
- ⑨ MONTGOMERY COUNTY COMBINATION CONCRETE CURB AND GUTTER TYPE A (STD. NO. MC-100.01)
- ⑩ STANDARD MSHA TYPE A CONCRETE CURB AND GUTTER (MSHA STD. NO. MD 620.02)
- ⑪ LONGITUDINAL UNDERDRAIN (MSHA STANDARD 387.11-01). LONGITUDINAL UNDERDRAIN SHALL BE WRAPPED IN CLASS SD TYPE II GEOTEXTILE.
- ⑫ TOP OF SUBGRADE AND LIMIT OF CLASS I EXCAVATION
- ⑬ TOP OF EXISTING PAVEMENT AFTER 1.5" FINE MILLING
- ⑭ TOP OF EXISTING PAVEMENT AFTER 2.0" FINE MILLING
- ⑮ EXISTING SUBGRADE
- ⑯ MD 355 DRIVEWAY DETAILS:
  - 8.0" PLAIN CEMENT CONCRETE PAVEMENT, MIX 9
  - CLARKSBURG ROAD DRIVEWAY DETAILS:
    - 7.0" PLAIN CEMENT CONCRETE PAVEMENT, MIX 9
- ⑰ CLARKSBURG ROAD CURB AND GUTTER FORM PLACEMENT MIX DETAILS:
  - 5.0" PLAIN CEMENT CONCRETE PAVEMENT, MIX 9
  - MD 355 CURB AND GUTTER FORM PLACEMENT MIX DETAILS:
    - 6.0" PLAIN CEMENT CONCRETE PAVEMENT, MIX 9
- ⑱ FULL-DEPTH SAW CUT (SEE NOTE 4)
- ⑲ WEDGE/LEVEL (SEE NOTE 2)

## GENERAL NOTES

1. PATCHING SHALL BE DONE PRIOR TO FINE MILLING OF EXISTING PAVEMENT TO AVOID CONSTRUCTION JOINT. CONTRACTOR SHALL REFER TO MD 578.03-01 FOR PATCHING ON MD 355 AND TO MD 578.03 FOR PATCHING ON MD 121A. REMOVAL OF EXISTING MATERIAL AND SAWCUTTING SHALL BE CONSIDERED INCIDENTAL TO PATCHING.
2. WEDGE/LEVEL SHALL BE USED TO MAKE GRADE AND SUPERELEVATION ADJUSTMENTS AS DIRECTED BY ENGINEER. USE THE FOLLOWING MATERIAL:
  - FOR WEDGE/LEVELING 0" TO 2" LIFT:
    - SUPERPAVE ASPHALT MIX SUPERPAVE 9.5MM FOR WEDGE/LEVEL
    - PG 64S-22, LEVEL 2 (1" MINIMUM AND 2" MAXIMUM LIFT THICKNESS)
  - FOR WEDGE/LEVELING 2" TO 4" LIFT:
    - SUPERPAVE ASPHALT MIX SUPERPAVE 19.0MM FOR WEDGE/LEVEL
    - PG 64S-22, LEVEL 2
3. GEOTEXTILE FABRIC FOR UNDERDRAIN TO BE MSMT CLASS SD TYPE II, OR APPROVED EQUAL. GEOTEXTILE FABRIC TO BE OVERLAPPED BY MINIMUM 12". REFER TO STD. MD-387.11.
4. CONTRACTOR SHALL FULL DEPTH SAWCUT THROUGH EXISTING ASPHALT PAVEMENT AND BASE ONLY. EXCAVATE EXISTING ROADWAY AS REQUIRED TO INSTALL PROPOSED PAVEMENT. PAYMENT FOR SAWCUTTING WILL BE INCIDENTAL TO EXCAVATION.
5. IN AREAS WHERE EXISTING PAVEMENT IS BEING REMOVED, THE LIMIT OF CLASS I EXCAVATION SHALL BE AT THE BOTTOM OF THE BOUND MATERIALS IN THE EXISTING PAVEMENT OR AT THE TOP OF THE SUBGRADE, WHICHEVER IS LOWER.
6. PLACEMENT OF LONGITUDINAL UNDERDRAINS SHALL BE IN CONFORMANCE WITH STD. MD-387.11 OF MSHA'S STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES. THE LOCATION OF THE LONGITUDINAL UNDERDRAINS SHALL BE AS SPECIFIED ON THE PLAN SHEETS.
  - WHERE LONGITUDINAL UNDERDRAINS ARE FOUND DURING EXCAVATION, THEY SHALL BE REMOVED ENTIRELY, INCLUDING PIPE. REMOVAL OF EXISTING UNDERDRAIN PIPE AND BACKFILLING SHALL BE INCIDENTAL TO ROADWAY EXCAVATION. NEW LONGITUDINAL UNDERDRAIN SHALL BE PLACED AND CONNECTED PROPERLY TO THE EXISTING UNDERDRAINS.
7. CONTRACTOR SHALL PERFORM ALL TRENCHING PAVEMENT REPAIRS IN ACCORDANCE WITH MD 578.01 AND SHALL MATCH EXISTING PAVEMENT SECTIONS.
8. CONTRACTOR SHALL PERFORM ALL NEW CURB AND GUTTER INSTALLATION ALONG EXISTING PAVEMENT IN ACCORDANCE WITH MD 580.03.



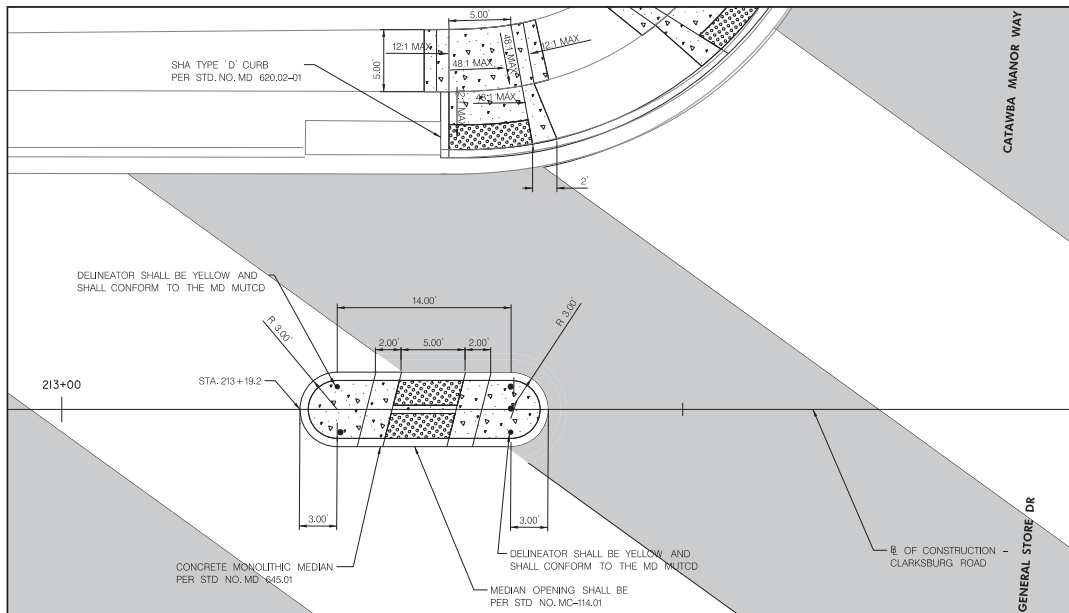
DEPTH OF CUT	SUPERIOR ROUNDING	STANDARD ROUNDING
0' TO 7'	2D	SAME AS
8' TO 12'	D+7	DEPTH OF CUT (10' MAX)
>12'	20	

D = DEPTH OF CUT

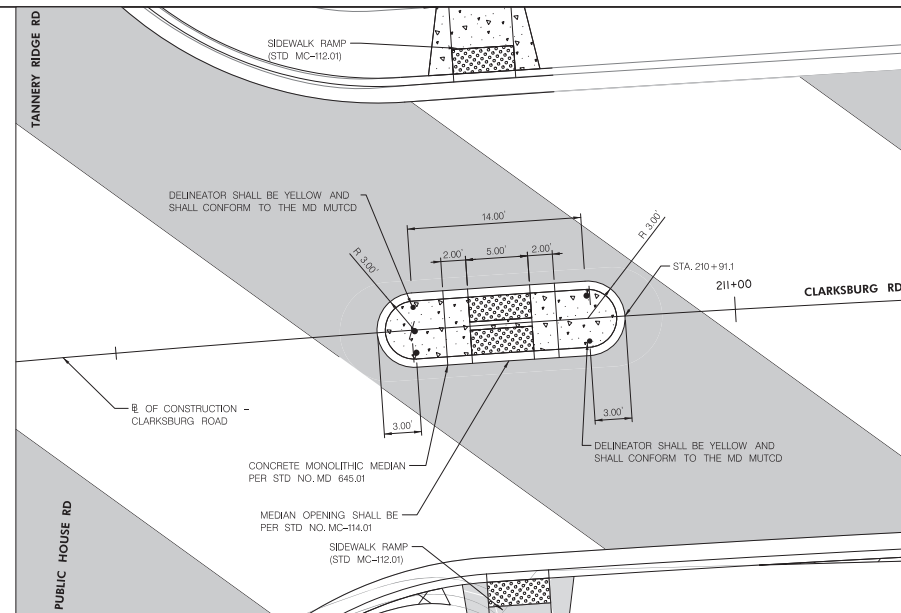


MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND				MD355/CLARKSBURG ROAD INTERSECTION IMPROVEMENTS PAVEMENT DETAILS	
RECOMMENDED FOR APPROVAL Chief, Design Section APPROVED _____ Date _____ Chief, Division of Capital Development _____ Date _____ Designed by: <u>JMF</u> Drawn by: <u>JSK</u> Checked by: <u>JSK</u>				SCALE: AS SHOWN DATE: SEPTEMBER 2020 PD-01 DPS SC/SPM PERMIT SHEET NO. <u>N/A</u> of <u>N/A</u> C.I.P. Project No. <u>508000</u> <u>07</u> of <u>118</u>	





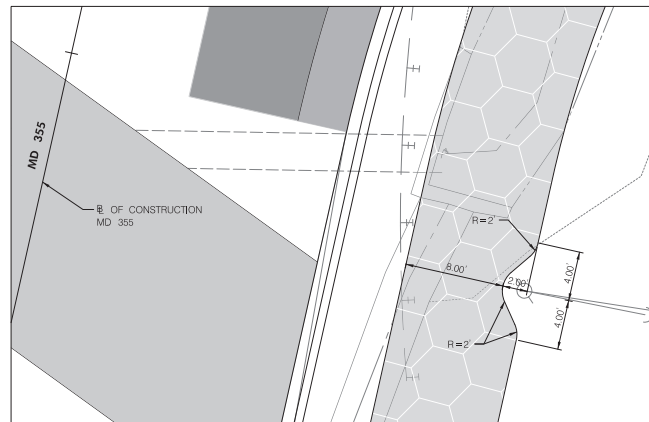
DETAIL A: LOCATION OF PEDESTRIAN ISLAND 2  
CLARKSBORG RD STA. 213+19.2 TO STA. 213+39.2



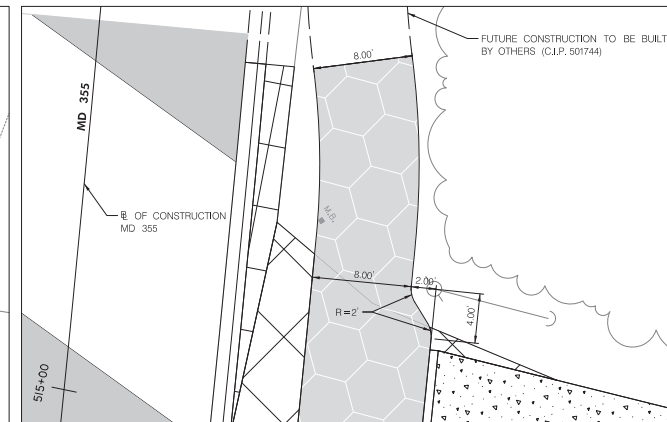
DETAIL B: LOCATION OF PEDESTRIAN ISLAND 1  
CLARKSBORG RD STA. 210+71.1 TO STA. 210+91.1



DETAIL C: SIDEWALK RAMP MD 355  
MD 355 STA. 509+03.4 TO STA. 509+17.1



DETAIL D: SHARED USE PATH PINCH POINT 1  
MD 355 STA. 507+39.3



DETAIL E: SHARED USE PATH PINCH POINT 2  
MD 355 STA. 515+11.0



MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND			
RECOMMENDED FOR APPROVAL			
Chief, Design Section	Date		
APPROVED			
Chief, Division of Capital Development	Date		
Designed by: JLF	Drawn by: JSC	Checked by: JLF	

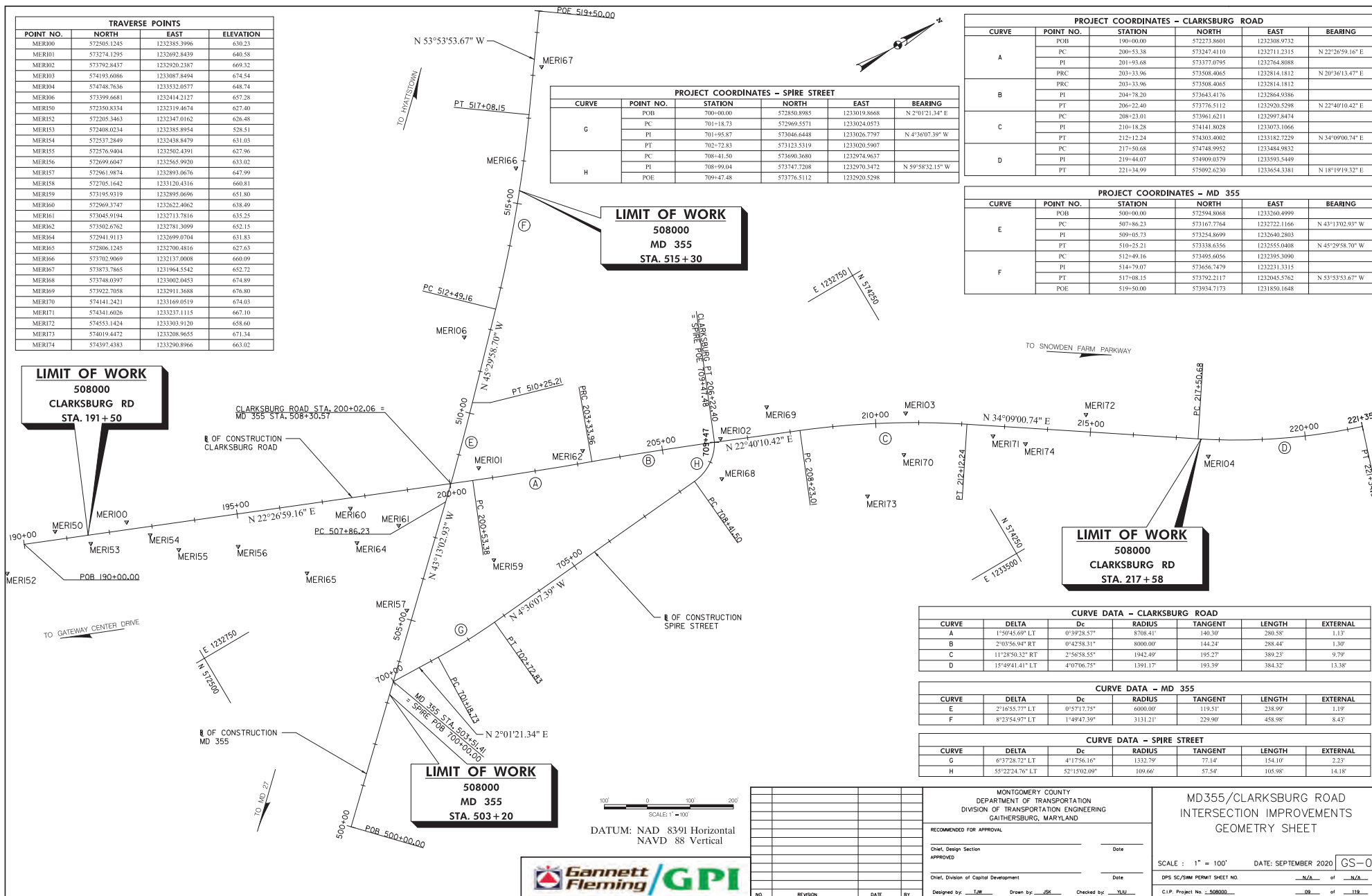
MD355/CLARKSBURG ROAD INTERSECTION IMPROVEMENTS DETAILS SHEET			
SCALE: 1" = 5'			
DATE: SEPTEMBER 2020			
DPS SC/SPM PERMIT SHEET NO. N/A of N/A			
C.I.P. Project No. 508000 08 of 119			

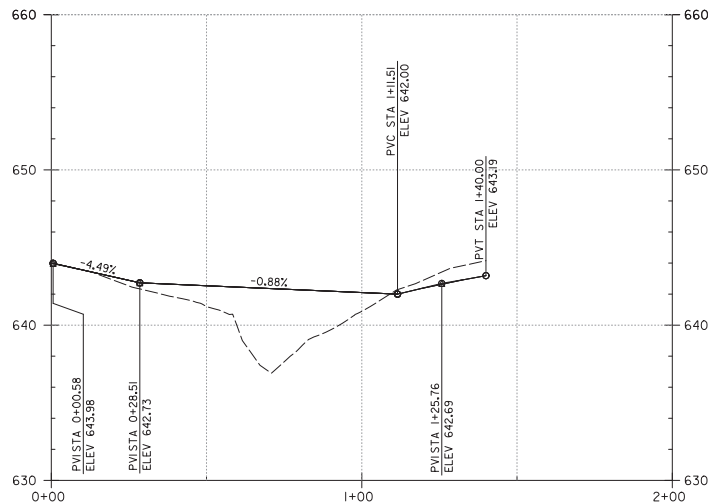
TRAVERSE POINTS			
POINT NO.	NORTH	EAST	ELEVATION
MER100	572505.1245	1232385.3996	630.23
MER101	573274.1295	1232692.8439	640.58
MER102	573792.8437	1232920.2387	669.32
MER103	574193.6086	1233087.8494	674.54
MER104	574748.7636	1233532.0577	648.74
MER106	573399.6681	1232414.2127	657.28
MER150	572350.8334	1232319.4674	627.40
MER152	572205.3463	1232347.0162	626.48
MER153	572408.0234	1232385.8954	528.51
MER154	572537.2849	1232438.8479	631.03
MER155	572576.9404	1232502.4391	627.96
MER156	572699.6047	1232565.9920	633.02
MER157	572961.9874	1232893.0676	647.99
MER158	572705.1642	1233120.4316	660.81
MER159	573195.9319	1232895.0696	651.80
MER160	572969.3747	1232622.4062	638.49
MER161	573045.9194	1232713.7816	635.25
MER162	573502.6762	1232781.3099	652.15
MER164	572941.9113	1232699.0704	631.83
MER165	572906.1245	1232700.4816	627.63
MER166	573702.9969	1232137.9008	660.09
MER167	573873.7865	1231964.5542	652.72
MER168	573748.0397	1233002.0453	674.89
MER169	573922.7058	1232911.3688	676.80
MER170	574141.2421	1233169.0519	674.03
MER171	574341.6026	1233237.1115	667.10
MER172	574553.1424	1233303.9120	658.60
MER173	574019.4472	1233208.9655	671.34
MER174	574397.4383	1233290.8966	663.02

PROJECT COORDINATES - SPIRE STREET					
CURVE	POINT NO.	STATION	NORTH	EAST	BEARING
G	POB	700+00.00	572505.8985	1233019.8668	N 2°01'21.34" E
	PC	701+18.73	572969.5571	1233024.0573	
	PI	701+95.87	573046.6448	1233026.7797	N 4°36'07.39" W
	PT	702+72.83	573123.5319	1233020.5907	
H	PC	708+41.50	573690.3680	1232974.9637	
	PI	708+99.04	573747.7208	1232970.3472	N 59°58'32.15" W
	POE	709+47.48	573776.5112	1232920.5298	

PROJECT COORDINATES - CLARKSBURG ROAD					
CURVE	POINT NO.	STATION	NORTH	EAST	BEARING
A	POB	190+00.00	572273.8601	1232308.9732	
	PC	200+53.38	573247.4110	1232711.2315	N 22°26'59.16" E
	PI	201+93.68	573377.0795	1232764.8088	
	PRC	203+33.96	573508.4065	1232814.1812	N 20°36'13.47" E
B	PI	204+78.20	573643.4176	1232864.9386	
	PT	206+22.40	573776.5112	1232920.5298	N 22°40'10.42" E
C	PC	208+23.01	573961.6211	1232997.8474	
	PI	210+18.28	574141.8028	1233073.1666	
D	PC	212+12.24	574303.4002	1233182.7229	N 34°09'00.74" E
	PI	217+50.68	574748.9832	1233484.9832	
	PI	219+44.07	574909.0379	1233593.5440	
	PT	221+34.99	575092.6220	1233654.3381	N 18°19'19.32" E

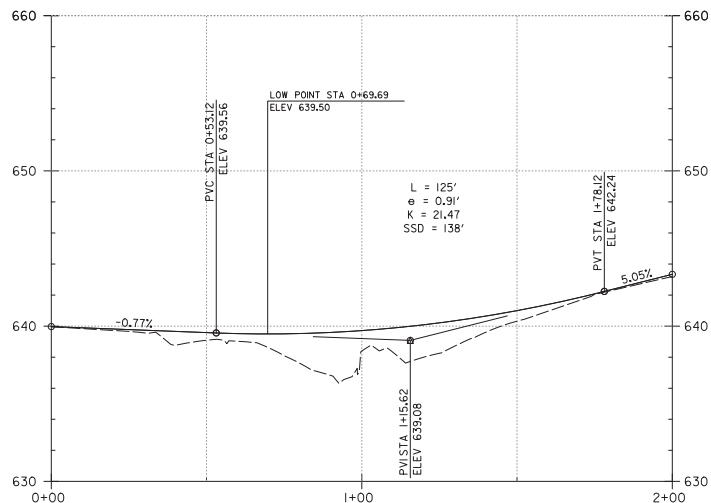
PROJECT COORDINATES - MD 355					
CURVE	POINT NO.	STATION	NORTH	EAST	BEARING
E	POB	580+00.00	572594.8068	1233360.4999	
	PC	587+86.23	573167.7764	1232722.1166	N 43°13'02.83" W
	PI	589+05.73	573254.8699	1232640.2803	
	PT	510+25.21	573338.6356	1232555.0408	N 45°29'58.70" W
F	PC	512+49.16	573495.6056	1232395.3090	
	PI	514+79.07	573656.7479	1232231.3315	
	PT	517+08.15	573792.2117	1232045.5762	N 53°53'53.67" W
	POE	519+50.00	573934.7173	1231850.1648	





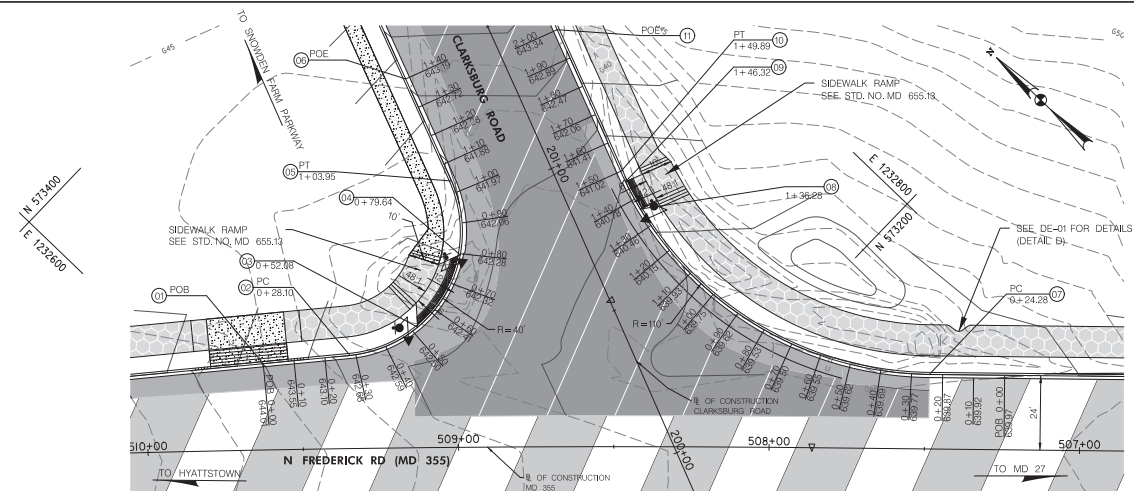
CLARKSBURY @ MD 355  
NORTHWEST CURB RETURN

HOR. SCALE: 1" = 20'  
VERT. SCALE: 1" = 4'



CLARKSBURY @ MD 355  
NORTHEAST CURB RETURN

HOR. SCALE: 1" = 20'  
VERT. SCALE: 1" = 4'



STATION / ELEVATION  
APPLIES TO CURB AS  
SHOWN (SEE MC-100.01)

MC TYPE A COMBINATION  
CURB & GUTTER DIAGRAM

STATION / ELEVATION  
APPLIES TO BOTTOM  
OF CURB

SHA TYPE A COMBINATION  
CURB & GUTTER DIAGRAM

- NOTES:
- FOR CLARKSBURY ROAD WEDGE AND LEVEL INFORMATION SEE HT-01 AND HP-01.
  - SHA TYPE A CURB AND GUTTER ENDS AT STA 200+86 AND MC TYPE A CURB AND GUTTER SHALL BE USED FOR THE REMAINDER OF CLARKSBURY ROAD.

CONTROL POINTS						
POINT	BASLINE	STATION	OFFSET	NORTH	EAST	ELEVATION
01	MD 355	509+62.4	27.8 RT	573314.0040	1232619.2888	644.01'
02	MD 355	509+34.5	30.0 RT	573295.6706	1232640.5806	642.75'
03	MD 355	509+12.7	38.8 RT	573286.2297	1232662.2377	642.48'
04	CLARKSBURY ROAD	200+86.5	38.1 LT	573292.4713	1232688.5213	642.28'
05	CLARKSBURY ROAD	201+09.4	31.0 LT	573310.9456	1232703.7467	641.93'
06	CLARKSBURY ROAD	201+45.6	31.0 LT	573344.3807	1232717.2295	643.19'
07	MD 355	507+48.7	24.0 RT	573156.8265	1232765.3382	639.84'
08	CLARKSBURY ROAD	200+76.5	20.9 RT	573260.8461	1232739.3104	640.70'
09	CLARKSBURY ROAD	200+86.4	20.1 RT	573270.4011	1232742.3662	640.90'
10	CLARKSBURY ROAD	200+90.0	20.0 RT	573273.7293	1232743.6624	641.02'
11	CLARKSBURY ROAD	201+40.0	20.0 RT	573320.1753	1232762.4696	643.34'

### ROADWAY LEGEND

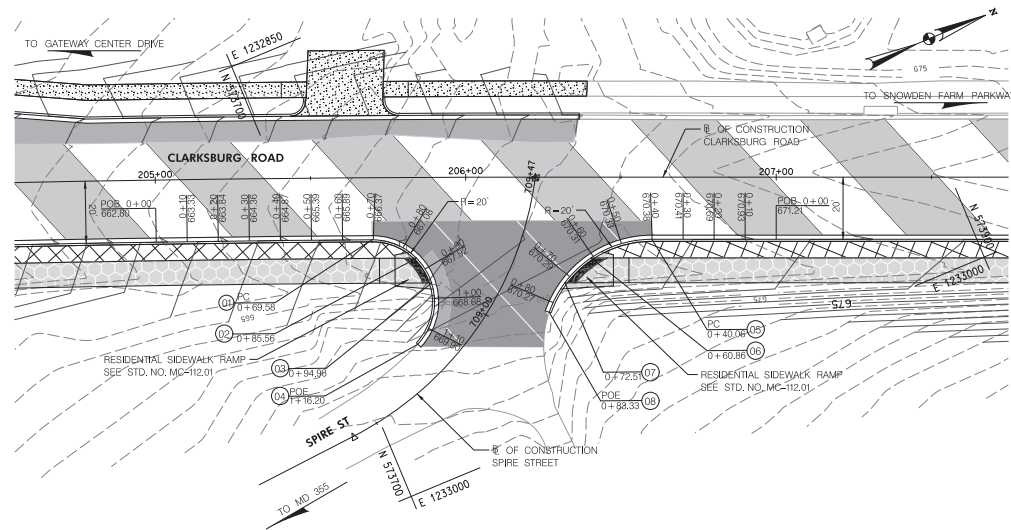
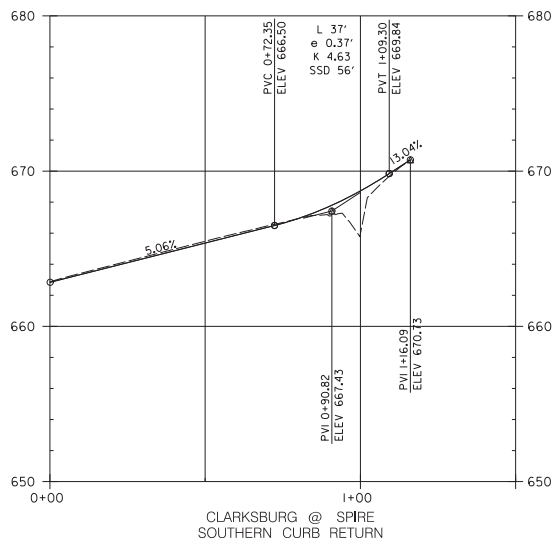
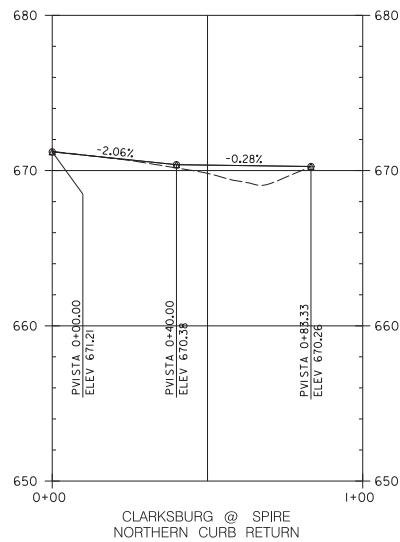
- FULL DEPTH PAVING
- PAVEMENT WEDGE AND LEVELING
- FINE MILLING/OVERLAY
- PAVEMENT TO BE REMOVED
- CONCRETE DRIVEWAY/SIDEWALK
- ASPHALT SHARED USE PATH
- SWM ACCESS ROAD
- TRAFFIC FLOW ARROW

DATUM: NAD 83/1 Horizontal  
NAVD 88 Vertical



MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND			
RECOMMENDED FOR APPROVAL			
Chief, Design Section	Date		
APPROVED			
Chief, Division of Capital Development	Date		
Designed by: JMF	Drawn by: JSC	Checked by: JMF	
NO.	REVISION	DATE	BY
MD355/CLARKSBURY ROAD INTERSECTION IMPROVEMENTS INTERSECTION DETAILS CLARKSBURY @ MD 355			
SCALE: 1" = 20' DATE: SEPTEMBER 2020 ID-01			
DPS SC/SWM PERMIT SHEET NO. N/A of N/A			
C.I.P. Project No. 508000 10 of 118			





STATION / ELEVATION  
APPLIES TO CURB AS  
SHOWN (SEE MC-100.01)

MC TYPE A COMBINATION  
CURB & GUTTER DIAGRAM

CONTROL POINTS						
POINT	BASELINE	STATION	OFFSET	NORTH	EAST	ELEVATION
01	CLARKSBURY ROAD	205+69.7	20.0 RT	573720.2241	1232918.8817	666.35'
02	CLARKSBURY ROAD	205+84.0	26.0 RT	573731.1703	1232929.8678	667.66'
03	CLARKSBURY ROAD	205+89.4	36.0 RT	573732.5643	1232939.0964	668.02'
04	CLARKSBURY ROAD	205+84.3	53.7 RT	573720.8671	1232955.6154	670.70'
05	CLARKSBURY ROAD	206+59.9	20.0 RT	573803.4412	1232953.4526	670.38'
06	CLARKSBURY ROAD	206+40.35	26.0 RT	573783.0467	1232951.4365	670.31'
07	CLARKSBURY ROAD	206+30.6	36.0 RT	573772.2086	1232955.5793	670.28'
08	CLARKSBURY ROAD	206+26.9	43.5 RT	573763.8756	1232962.4025	670.26'

ROADWAY LEGEND	
	FULL DEPTH PAVING
	PAVEMENT WEDGE AND LEVELING
	FINE MILLING/OVERLAY
	PAVEMENT TO BE REMOVED
	CONCRETE DRIVEWAY/SIDEWALK
	ASPHALT SHARED USE PATH
	SWM ACCESS ROAD
	TRAFFIC FLOW ARROW

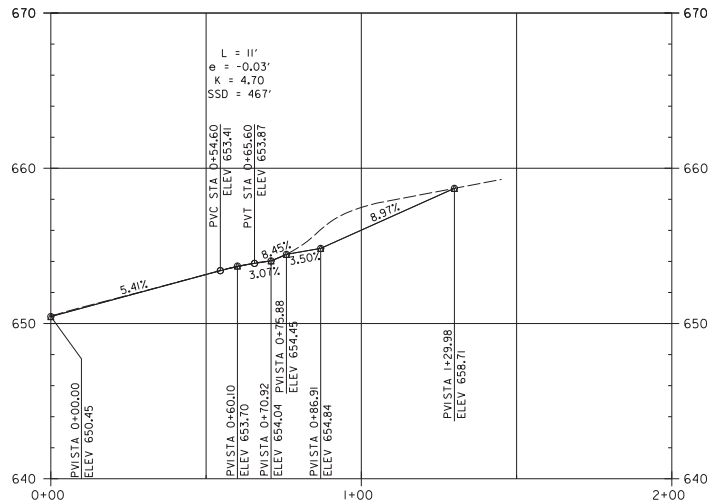
DATUM: NAD 83/1 Horizontal  
NAVD 88 Vertical



NO.	REVISION	DATE	BY

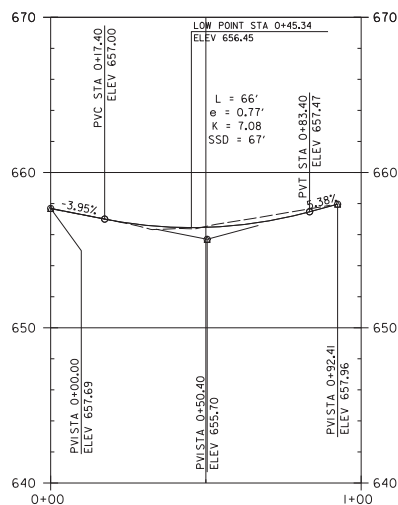
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	Date
Chief, Design Section	
APPROVED	Date
Chief, Division of Capital Development	
Designed by: <u>JH</u>	Drawn by: <u>JK</u>
Checked by: <u>SL</u>	

MD355/CLARKSBURY ROAD INTERSECTION IMPROVEMENTS INTERSECTION DETAILS CLARKSBURY @ SPIRE ST	
SCALE: 1" = 20'	DATE: SEPTEMBER 2020
DPS SC/SWM PERMIT SHEET NO. <u>N/A</u>	of <u>N/A</u>
C.I.P. Project No. <u>508000</u>	11 of 118



MD 355 @ SPIRE ST  
NORTHWEST CURB RETURN

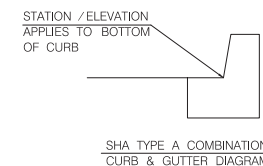
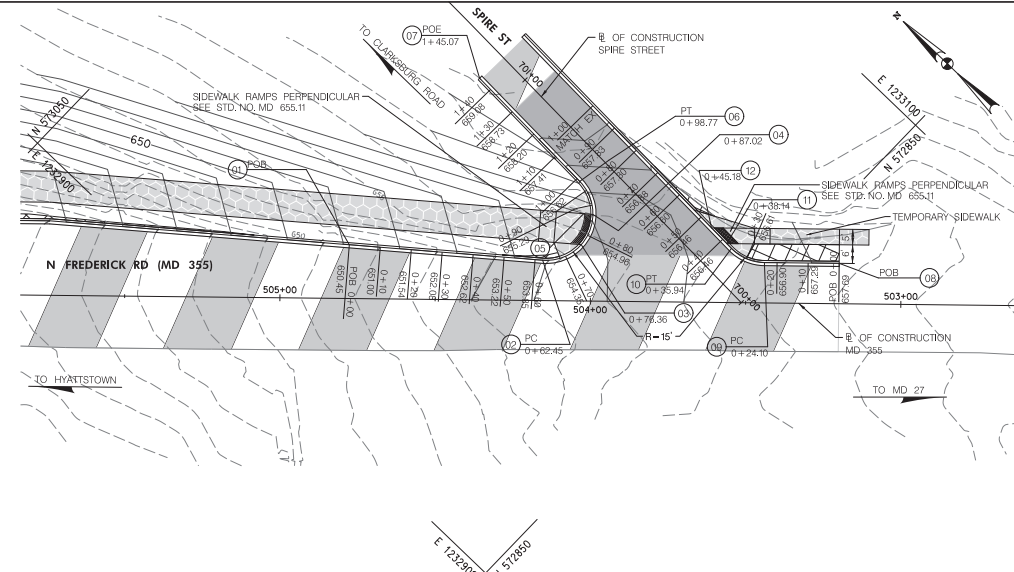
HOR. SCALE: 1" = 20'  
VERT. SCALE: 1" = 4'



MD 355 @ SPIRE ST  
NORTHEAST CURB RETURN

HOR. SCALE: 1" = 20'  
VERT. SCALE: 1" = 4'

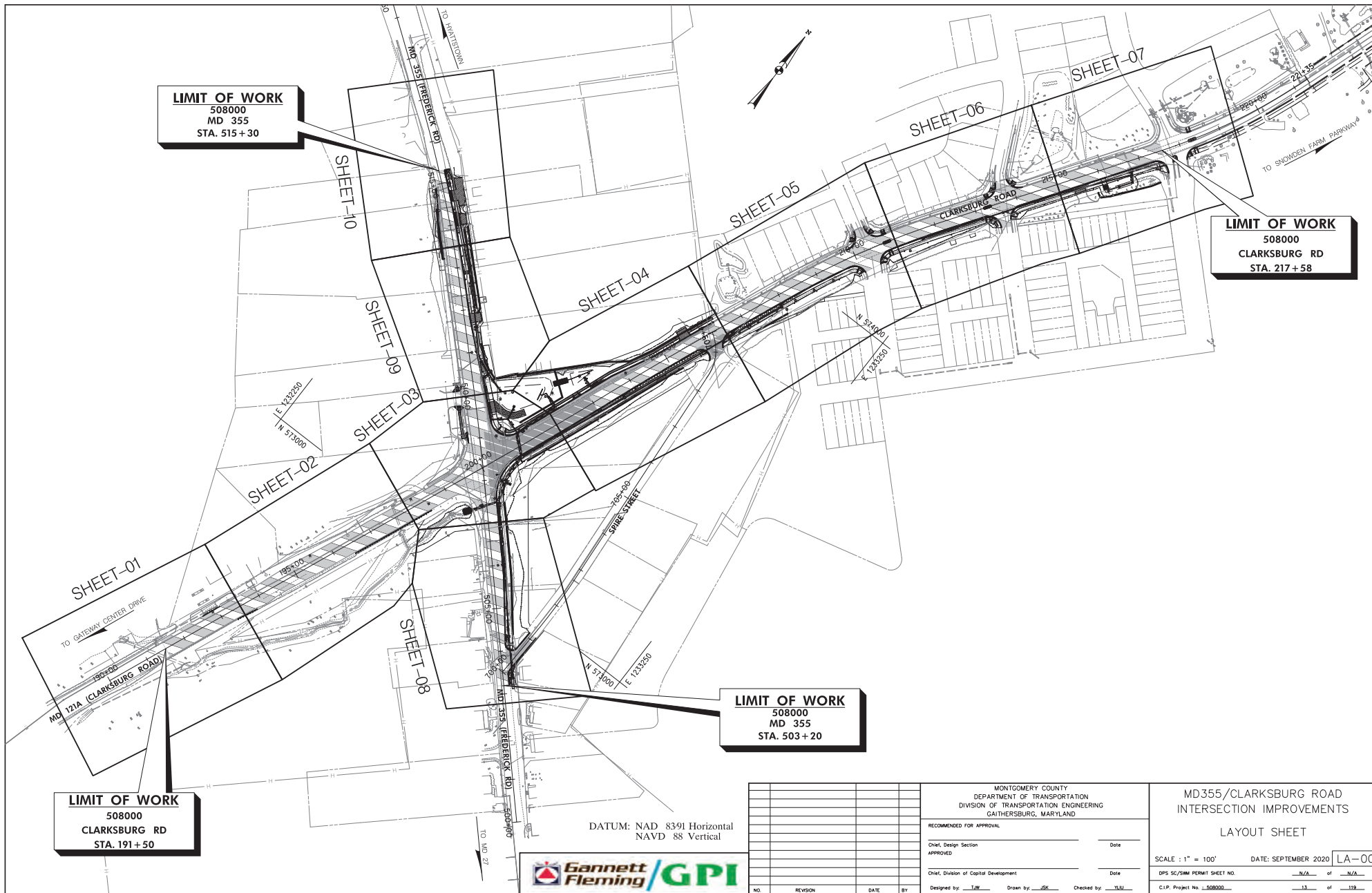
DATUM: NAD 83/1 Horizontal  
NAVD 88 Vertical



CONTROL POINTS						
POINT	BASELINE	STATION	OFFSET	NORTH	EAST	ELEVATION
01	MD 355	504+77.82	17.3 RT	572954.8797	1232945.9231	650.45'
02	MD 355	504+15.51	13.0 RT	572906.5201	1232985.4428	653.96'
03	MD 355	504+03.13	18.2 RT	572901.0248	1232997.6821	654.90'
04	MD 355	503+99.48	27.9 RT	572905.0555	1233007.3027	655.10'
05	MD 355	504+02.43	28.1 RT	572907.3527	1233005.4254	655.10'
06	MD 355	504+03.83	38.5 RT	572915.4824	1233012.0483	656.13'
07	MD 355	504+36.43	71.4 RT	572961.7518	1233013.6824	659.28'
08	MD 355	503+20.00	13.0 RT	572836.9101	1233050.8466	657.69'
09	MD 355	503+44.10	13.0 RT	572854.4706	1233034.3469	656.77'
10	MD 355	503+54.75	17.4 RT	572865.2716	1233030.2876	656.50'
11	MD 355	503+56.30	19.0 RT	572867.4701	1233030.3652	656.47'
12	MD 355	503+61.25	24.0 RT	572874.5073	1233030.6138	656.44'

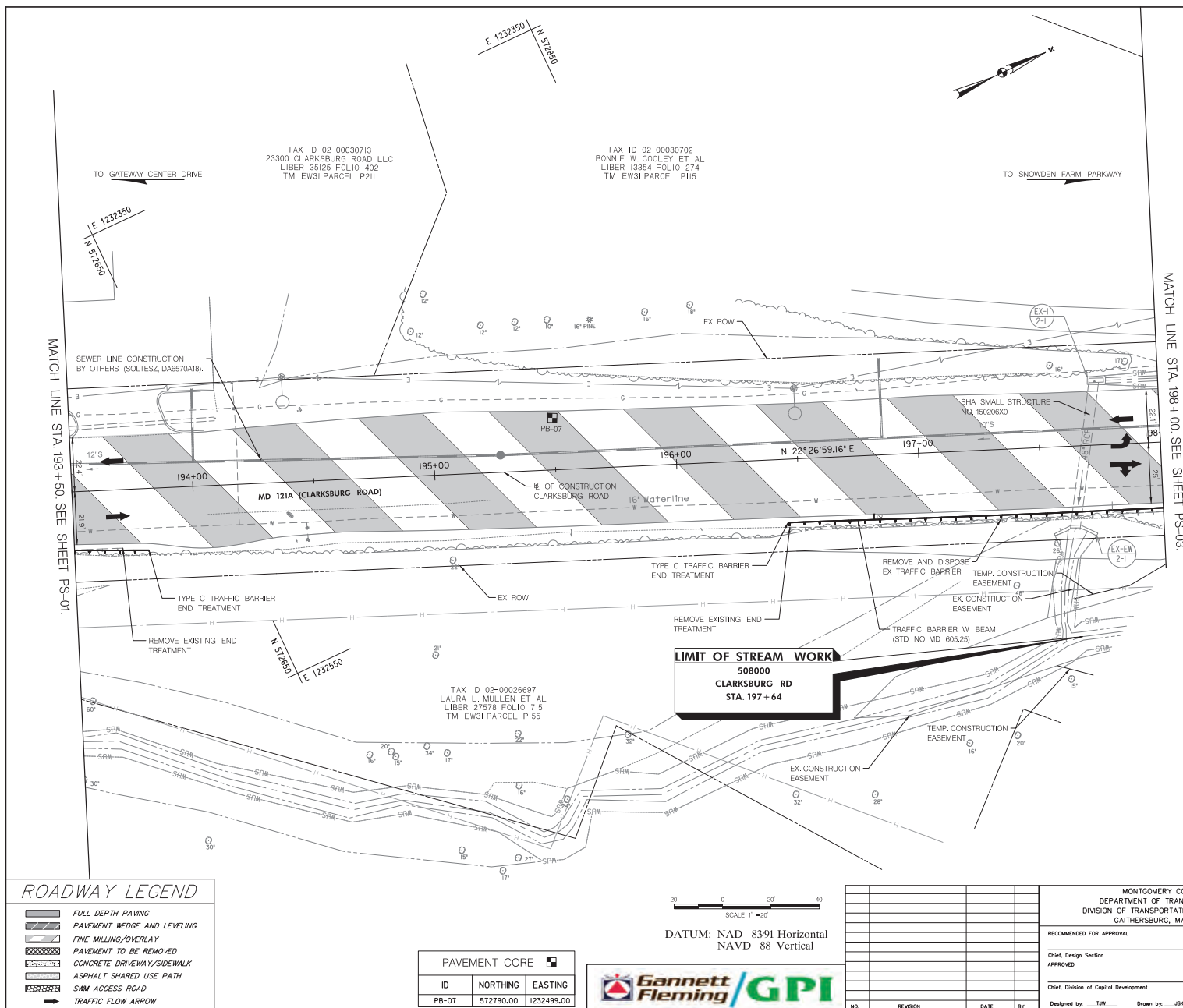
ROADWAY LEGEND	
	FULL DEPTH PAVING
	PAVEMENT WEDGE AND LEVELING
	FINE MILLING/OVERLAY
	PAVEMENT TO BE REMOVED
	CONCRETE DRIVEWAY/SIDEWALK
	ASPHALT SHARED USE PATH
	SWIM ACCESS ROAD
	TRAFFIC FLOW ARROW

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND		MD355/CLARKSBURG ROAD INTERSECTION IMPROVEMENTS INTERSECTION DETAILS SPIRE @ MD 355	
RECOMMENDED FOR APPROVAL Chief, Design Section APPROVED _____ Date _____		SCALE: 1" = 20' DATE: SEPTEMBER 2020 ID-03	
Chief, Division of Capital Development APPROVED _____ Date _____		DPS SC/SPM PERMIT SHEET NO. _____ of _____	
Designed by: JMF Drawn by: JSC Checked by: JMF		C.I.P. Project No.: 508000 _____ of _____	



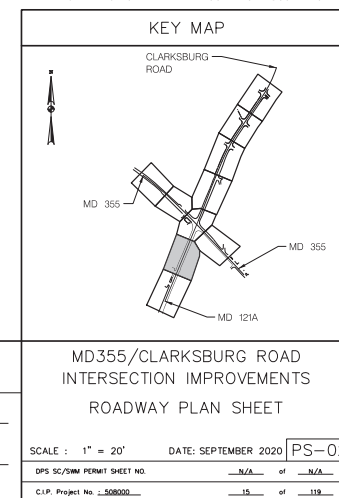


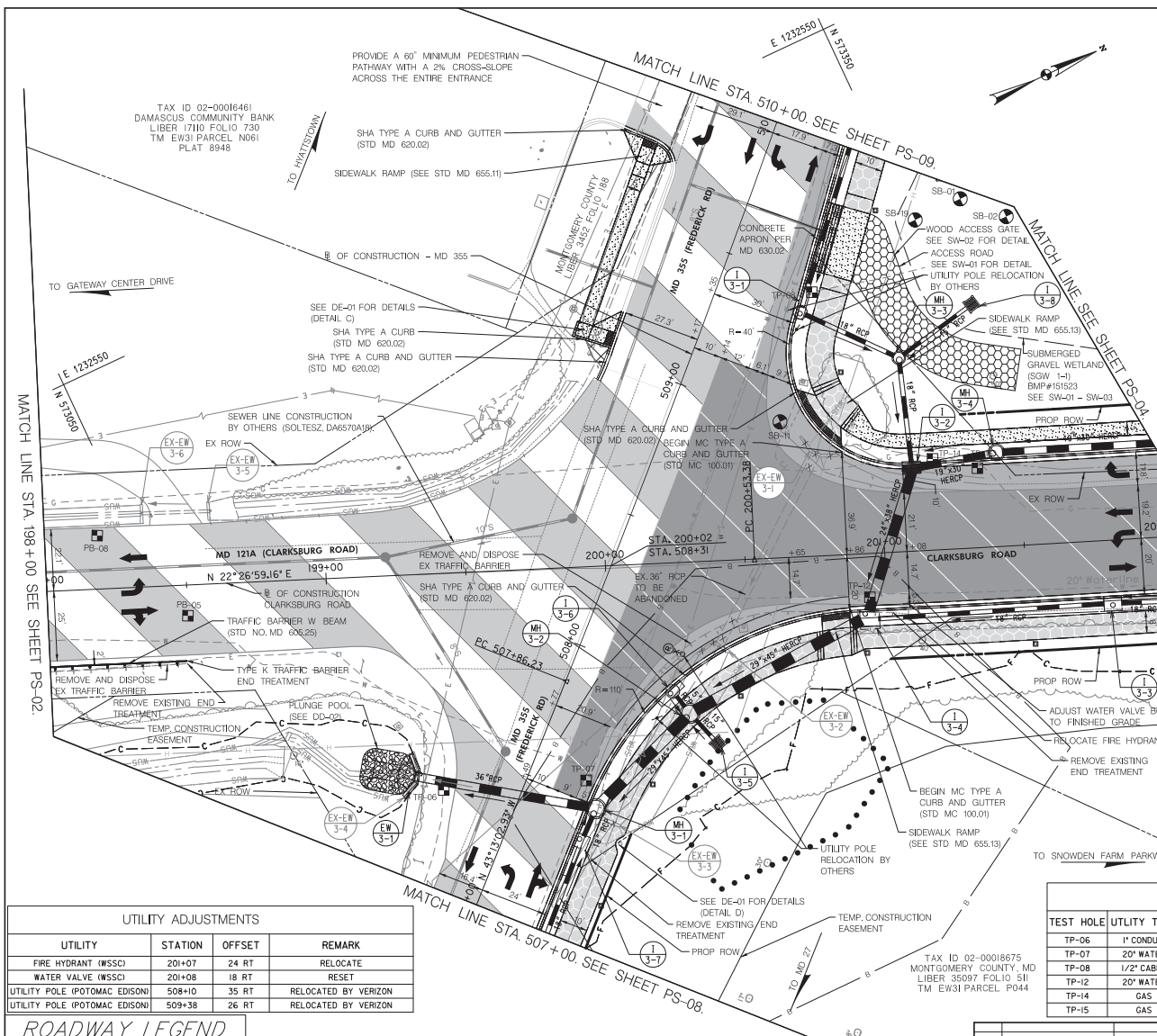




FINE MILLING ASPHALT PAVEMENT 1 INCH TO 2 INCH DEPTH	
2364 SY	CLARKSBURG ROAD - STA. 193+50 TO STA. 198+00
REMOVAL AND DISPOSAL OF EXISTING TRAFFIC BARRIER W BEAM	
20 LF	CLARKSBURG ROAD - STA. 193+50 RT TO STA. 193+70 RT
155 LF	CLARKSBURG ROAD - STA. 196+45 RT TO STA. 198+00 RT
TRAFFIC BARRIER W BEAM 6 FOOT POST (STD. NO. MD-605.25)	
155 LF	CLARKSBURG ROAD - STA. 196+45 RT TO STA. 198+00 RT
TYPE C TRAFFIC BARRIER END TREATMENT (STD. NO. MD-605.03)	
1 EA.	CLARKSBURG ROAD - STA. 193+81 RT
1 EA.	CLARKSBURG ROAD - STA. 196+45 RT
REMOVE EXISTING END TREATMENT	
1 EA.	CLARKSBURG ROAD - STA. 193+70
1 EA.	CLARKSBURG ROAD - STA. 196+46

NOTE:  
ADJUSTMENT OF EXISTING VISIBLE UTILITIES TO FINISHED GRADE SHALL BE INCIDENTAL TO THE PERTINENT ASPHALT/CONCRETE ITEM UNLESS OTHERWISE STATED IN THE CONTRACT DOCUMENTS.





UTILITY ADJUSTMENTS			
UTILITY	STATION	OFFSET	REMARK
FIRE HYDRANT (WSSC)	201+07	24 RT	RELOCATE
WATER VALVE (WSSC)	201+08	18 RT	RESET
UTILITY POLE (POTOMAC EDISON)	508+10	35 RT	RELOCATED BY VERIZON
UTILITY POLE (POTOMAC EDISON)	509+38	26 RT	RELOCATED BY VERIZON

ROADWAY LEGEND	
	FULL DEPTH PAVING
	PAVEMENT WEDGE AND LEVELING
	FINE MILLING/OVERLAY
	PAVEMENT TO BE REMOVED
	CONCRETE DRIVEWAY/SIDEWALK
	ASPHALT SHARED USE PATH
	SWM ACCESS ROAD
	TRAFFIC FLOW ARROW



DATUM: NAD 83/1 Horizontal  
NAVD 88 Vertical



4" CONCRETE SIDEWALK (STD. NO. MC-110.01)	
570 SF	CLARKSBURG ROAD - STA. 200+87 LT TO STA. 200+96 LT
509 SF	MD 355 - STA. 509+04 LT TO STA. 509+19 LT
STANDARD TYPE A CURB 8 INCH X 16 INCH MINIMUM (STD. NO. MD-620.02)	
20 LF	MD 355 - STA. 509+03 LT TO STA. 509+08 LT
REMOVAL OF EXISTING MASONRY	
4 CY	MD 355 - STA. 507+49, 31 RT EX. EX. 3-31
FLOWABLE BACKFILL FOR PIPE ABANDONMENT	
15 CY	CLARKSBURG - STA. 200+39, 31 RT TO STA. 200+78, 37 LT (36" RCP)
REMOVAL OF EXISTING SIDEWALK	
1 CY	MD 355 - STA. 508+96 LT TO STA. 509+04 LT
1 CY	MD 355 - STA. 509+59 LT TO STA. 509+71 LT
8 INCH PORTLAND CEMENT CONCRETE PAVEMENT FOR DRIVEWAY MIX 9 (STD. NO. MD-630.02)	
43 SY	MD 355 - STA. 509+54 RT TO STA. 509+79 RT
MC COMBINATION CONCRETE CURB AND GUTTER TYPE A (STD. NO. MC-100.01)	
114 LF	CLARKSBURG ROAD - STA. 200+86 RT TO STA. 200+92 RT
113 LF	CLARKSBURG ROAD - STA. 200+86 LT TO STA. 200+92 LT
TYPE K TRAFFIC BARRIER END TREATMENT, ANY OPTION (STD. NO. MD-605.10)	
1 EA.	CLARKSBURG ROAD - STA. 199+49 RT

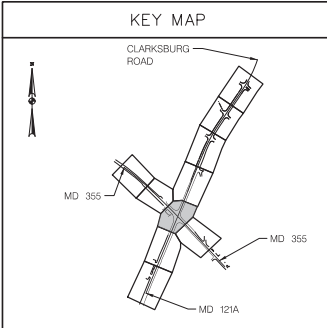
SOIL BORING		
ID	NORTHING	EASTING
SB-01	573368.67	1232625.67
SB-02	573368.89	1232638.36
SB-11	573276.49	1232670.62
SB-19	573350.88	1232625.67

PAVEMENT CORE		
ID	NORTHING	EASTING
PB-05	573055.24	1232643.73
PB-08	573038.00	1232604.00

- NOTE:
- ADJUSTMENT OF EXISTING VISIBLE UTILITIES TO FINISHED GRADE SHALL BE INCIDENTAL TO THE PERTINENT ASPHALT/CONCRETE ITEM UNLESS OTHERWISE STATED IN THE CONTRACT DOCUMENTS.
  - FOR TRANSITION BETWEEN SIDEWALK AND SHARED USE PATH: SEE MC-100.01, NOTE 5 FOR EXPANSION JOINT MATERIAL.

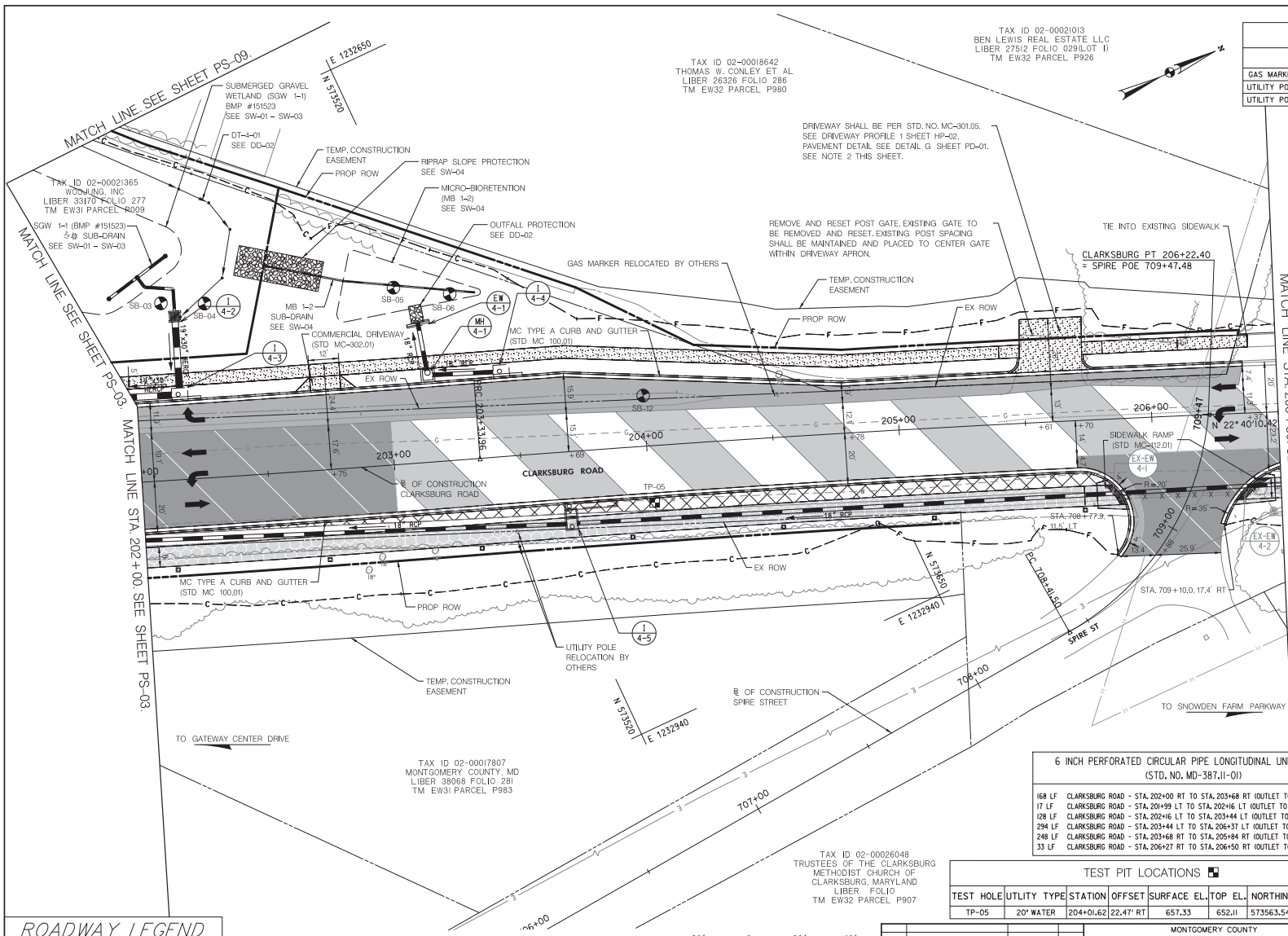
TEST PIT LOCATIONS							
TEST HOLE	UTILITY TYPE	STATION	OFFSET	SURFACE EL.	TOP EL.	NORTHING	EASTING
TP-06	1" CONDUIT	507+33.80	26.09' LT	640.2	638.54	57311.708	1232739.002
TP-07	20" WATER	507+55.83	19.97' RT	639.97	632.91	573159.301	1232757.480
TP-08	1/2" CABLE	509+47.17	32.48' RT	642.81	640.46	573306.443	1232633.412
TP-12	20" WATER	200+93.92	15.65' RT	641.35	635.58	573279.002	1232741.111
TP-14	GAS	201+16.88	32.64' LT	643.01	637.67	573320.278	1232705.753
TP-15	GAS	201+34.78	28.44' LT	643.34	637.72	573333.398	1232715.578

FINE MILLING ASPHALT PAVEMENT 1 INCH TO 2 INCH DEPTH	
687 SY	CLARKSBURG ROAD - STA. 198+00 TO STA. 199+30
485 SY	CLARKSBURG ROAD - STA. 200+96 LT TO MD 355 - STA. 202+00
2404 SY	MD 355 - STA. 507+00 TO STA. 510+00
REMOVAL AND DISPOSAL OF EXISTING TRAFFIC BARRIER W BEAM	
49 LF	CLARKSBURG ROAD - STA. 198+00 RT TO STA. 198+49 RT
163 LF	MD 355 - STA. 507+30 RT TO CLARKSBURG ROAD - STA. 201+02 RT
TRAFFIC BARRIER W BEAM 6 FOOT POST (STD. NO. MD-605.25)	
49 LF	CLARKSBURG ROAD - STA. 198+00 RT TO STA. 198+49 RT
SHARED USE PATH	
2548 SF	MD 355 - STA. 507+00 RT TO CLARKSBURG ROAD - STA. 202+00 RT
645 SF	CLARKSBURG ROAD - STA. 200+96 LT TO MD 355 - STA. 509+54 RT
202 SF	MD 355 - STA. 509+79 RT TO STA. 510+00 RT
STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH MINIMUM DEPTH (STD. NO. MD-620.02)	
171 LF	MD 355 - STA. 507+00 RT TO CLARKSBURG ROAD - STA. 200+86 RT
118 LF	CLARKSBURG ROAD - STA. 200+86 LT TO MD 355 - STA. 510+00 RT
26 LF	MD 355 - STA. 508+96 LT TO STA. 509+19 LT
22 LF	MD 355 - STA. 509+74 LT TO STA. 509+79 LT
DETECTABLE WARNING SURFACE (STD. NO. MD-655.40)	
48 SF	CLARKSBURG ROAD - STA. 200+77 LT
20 SF	CLARKSBURG ROAD - STA. 200+92 RT
10 SF	MD 355 - STA. 509+06 LT
11 SF	MD 355 - STA. 509+77 LT
REMOVE EXISTING END TREATMENT	
1 EA	CLARKSBURG ROAD - STA. 198+48 RT
1 EA	CLARKSBURG ROAD - STA. 201+02 RT
1 EA	MD 355 - STA. 507+30 RT
REMOVAL OF EXISTING PIPE	
14 LF	MD 355 - STA. 508+18, 46 RT TO STA. 508+32, 48 RT (36" RCP)
8 LF	MD 355 - STA. 508+87, 53 RT TO STA. 508+95, 54 RT (36" RCP)
6 INCH PERFORATED CIRCULAR PIPE LONGITUDINAL UNDERDRAIN (STD. NO. MD-387.11-01)	
98 LF	MD 355 - STA. 507+00 RT TO STA. 507+97 RT (OUTLET TO 13-7)
78 LF	MD 355 - STA. 507+97 RT TO CLARKSBURG ROAD - STA. 200+92 RT (OUTLET TO 13-6)
82 LF	CLARKSBURG ROAD - STA. 201+11 LT TO MD 355 - STA. 509+39 RT (OUTLET TO 13-2)
62 LF	MD 355 - STA. 509+39 RT TO STA. 510+00 RT (OUTLET TO 13-1)
88 LF	CLARKSBURG ROAD - STA. 200+92 RT TO STA. 201+40 RT (OUTLET TO 13-4)
20 LF	CLARKSBURG ROAD - STA. 201+40 RT TO STA. 202+00 RT (OUTLET TO 13-3)
88 LF	CLARKSBURG ROAD - STA. 201+11 LT TO STA. 201+99 LT (OUTLET TO 13-2)



MD355/CLARKSBURG ROAD INTERSECTION IMPROVEMENTS	
ROADWAY PLAN SHEET	
SCALE: 1" = 20'	DATE: SEPTEMBER 2020
DPS/SC/SPM PERMIT SHEET NO.	N/A of N/A
C.I.P. Project No.	508000
	18 of 118





UTILITY ADJUSTMENTS				
UTILITY	STATION	OFFSET	REMARK	
GAS MARKER (WASHINGTON GAS)	204+52	16 LT	RELOCATED BY WASHINGTON GAS	
UTILITY POLE (POTOMAC EDISON)	203+47	30 RT	RELOCATED BY POTOMAC EDISON	
UTILITY POLE (POTOMAC EDISON)	206+47	39 RT	GRADE AROUND POLE	

MC COMBINATION CONCRETE CURB AND GUTTER TYPE A (STD. NO. MC-100.01)				
416 LF	CLARKSBURG ROAD - STA. 202+00 RT TO SPIRE STREET - STA. 208+78 LT			
438 LF	CLARKSBURG ROAD - STA. 202+00 LT TO STA. 206+37 LT			
33 LF	SPIRE STREET - STA. 209+10 RT TO CLARKSBURG ROAD - STA. 206+50 RT			

FINE MILLING ASPHALT PAVEMENT 1 INCH TO 2 INCH DEPTH				
1830 SY	CLARKSBURG ROAD - STA. 202+00 TO STA. 206+50			

SHARED USE PATH				
3109 SF	CLARKSBURG ROAD - STA. 202+00 RT TO STA. 205+90 RT			
136 SF	CLARKSBURG ROAD - STA. 206+27 RT TO STA. 206+50 RT			

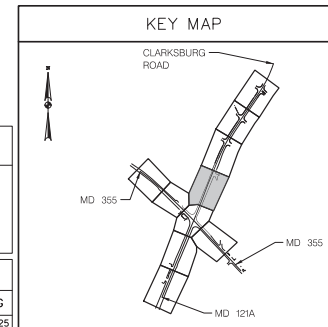
4" CONCRETE SIDEWALK (STD. NO. MC-110.01)				
367 SF	CLARKSBURG ROAD - STA. 201+94 LT TO STA. 202+69 LT			
1346 SF	CLARKSBURG ROAD - STA. 202+81 LT TO STA. 205+49 LT			
327 SF	CLARKSBURG ROAD - STA. 205+73 LT TO STA. 206+39 LT			

DETECTABLE WARNING SURFACE (STD. NO. MD-655.40)				
20 SF	CLARKSBURG ROAD - STA. 205+86 RT			
25 SF	CLARKSBURG ROAD - STA. 206+22 RT			

REMOVAL OF EXISTING PIPE				
51 LF	CLARKSBURG ROAD - STA. 205+87, 30 RT TO STA. 206+37, 32 RT 10" CMP			

7 INCH PORTLAND CEMENT CONCRETE PAVEMENT FOR DRIVEWAY MIX 9 (STD. NO. MC-301.01)				
17 SY	CLARKSBURG ROAD - STA. 202+63 LT TO STA. 202+87 LT			
59 SY	CLARKSBURG ROAD - STA. 205+44 LT TO STA. 205+78 LT			

REMOVAL OF EXISTING PAVEMENT				
52 CY	CLARKSBURG ROAD - STA. 202+00 RT TO STA. 205+81 RT			
1 CY	CLARKSBURG ROAD - STA. 206+45 RT TO STA. 206+50 RT			



ROADWAY LEGEND	
	FULL DEPTH PAVING
	PAVEMENT WEDGE AND LEVELING
	FINE MILLING/OVERLAY
	PAVEMENT TO BE REMOVED
	CONCRETE DRIVEWAY/SIDEWALK
	ASPHALT SHARED USE PATH
	SWM ACCESS ROAD
	TRAFFIC FLOW ARROW

SOIL BORING		
ID	NORTHING	EASTING
SB-03	573420.3	1232705.16
SB-04	573435.70	1232712.55
SB-05	573506.01	1232738.51
SB-06	573525.07	1232750.22
SB-12	573577.32	1232819.01

- NOTES:
- ADJUSTMENT OF EXISTING VISIBLE UTILITIES TO FINISHED GRADE SHALL BE INCIDENTAL TO THE PERTINENT ASPHALT/CONCRETE ITEM UNLESS OTHERWISE STATED IN THE CONTRACT DOCUMENTS.
  - PROVIDE A 60" MINIMUM PEDESTRIAN PATHWAY WITH A 2% CROSS-SLOPE ACROSS THE ENTIRE ENTRANCE



DATE: NAD 8391 Horizontal  
NAVD 88 Vertical

TEST PIT LOCATIONS						
TEST HOLE	UTILITY TYPE	STATION	OFFSET	SURFACE EL.	TOP EL.	NORTHING EASTING
TP-05	20" WATER	204+01.62	22.47' RT	657.33	652.11	573563.548 1232859.225

6 INCH PERFORATED CIRCULAR PIPE LONGITUDINAL UNDERDRAIN (STD. NO. MD-387.11-01)				
168 LF	CLARKSBURG ROAD - STA. 202+00 RT TO STA. 203+68 RT (OUTLET TO 13-3)			
17 LF	CLARKSBURG ROAD - STA. 201+99 LT TO STA. 202+16 LT (OUTLET TO 13-2)			
128 LF	CLARKSBURG ROAD - STA. 202+16 LT TO STA. 203+44 LT (OUTLET TO 14-3)			
294 LF	CLARKSBURG ROAD - STA. 203+44 LT TO STA. 206+37 LT (OUTLET TO 14-6)			
246 LF	CLARKSBURG ROAD - STA. 203+48 RT TO STA. 205+94 RT (OUTLET TO 14-5)			
33 LF	CLARKSBURG ROAD - STA. 206+27 RT TO STA. 206+50 RT (OUTLET TO 15-1)			

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND				
RECOMMENDED FOR APPROVAL				
Chief, Design Section				Date
APPROVED				
Chief, Division of Capital Development				Date
Designed by: JLM	Drawn by: JSC	Checked by: JLM		

MD355/CLARKSBURG ROAD INTERSECTION IMPROVEMENTS ROADWAY PLAN SHEET				
SCALE: 1" = 20'	DATE: SEPTEMBER 2020	PS-04		
DPS SC/SPW PERMIT SHEET NO.	N/A	of	N/A	
C.P. Project No.: S080900		17	of	118

REMOVAL OF EXISTING PAVEMENT		
38 CY	CLARKSBURG ROAD - STA.206+50 RT TO STA.208+76 RT	
2 CY	CLARKSBURG ROAD - STA.208+85 RT TO STA.209+54 RT	

UTILITY ADJUSTMENTS			
UTILITY	STATION	OFFSET	REMARK
WATER VALVE (WSSC)	206+57	26 RT	RESET
FIRE HYDRANT (WSSC)	206+57	33 RT	RELOCATE
WATER VALVE (WSSC)	207+72	23 RT	RESET
WATER MH (WSSC)	209+36	25 RT	RESET
VENT BOX (WSSC)	209+38	26 RT	RELOCATE
LIGHT POLE	210+54	37 RT	RELOCATE
SD MH (WSSC)	210+77	22 LT	RESET

#### FINE MILLING ASPHALT PAVEMENT 1 INCH TO 2 INCH DEPTH

2149 SY	CLARKSBURG ROAD - STA.206+50 TO STA.210+00
---------	--

#### SHARED USE PATH

2854 SF	CLARKSBURG ROAD - STA.206+50 RT TO STA.210+05 RT
468 SF	CLARKSBURG ROAD - STA.210+50 RT TO STA.210+00 RT

#### MC COMBINATION CONCRETE CURB AND GUTTER TYPE A (STD. NO. MC-100.01)

368 LF	CLARKSBURG ROAD - STA.206+50 RT TO STA.210+08 RT
51 LF	CLARKSBURG ROAD - STA.209+89 LT TO STA.210+20 LT
63 LF	CLARKSBURG ROAD - STA.210+45 LT TO STA.210+87 LT
61 LF	CLARKSBURG ROAD - STA.210+47 RT TO STA.210+00 RT

#### 4" CONCRETE SIDEWALK (STD. NO. MC-110.01)

7 SF	CLARKSBURG ROAD - STA.209+94 RT TO STA.210+00 RT
105 SF	CLARKSBURG ROAD - STA.210+02 LT TO STA.210+17 LT
98 SF	CLARKSBURG ROAD - STA.210+48 LT TO STA.210+63 LT
7 SF	CLARKSBURG ROAD - STA.210+55 RT TO STA.210+87 LT
88 SF	CLARKSBURG ROAD - STA.210+77 LT TO STA.210+86 LT

#### DETECTABLE WARNING SURFACE (STD. NO. MD-655.40)

19 SF	CLARKSBURG ROAD - STA.210+00 RT
12 SF	CLARKSBURG ROAD - STA.210+13 LT
12 SF	CLARKSBURG ROAD - STA.210+52 LT
19 SF	CLARKSBURG ROAD - STA.210+55 RT
10 SF	CLARKSBURG ROAD - STA.210+87 RT
10 SF	CLARKSBURG ROAD - STA.210+87 LT
10 SF	CLARKSBURG ROAD - STA.210+87 LT

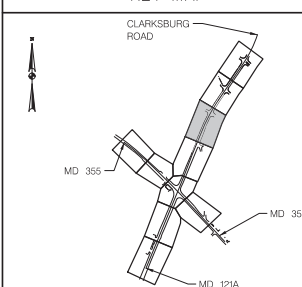
#### MONOLITHIC CONCRETE MEDIAN 6 FEET 0 INCH WIDE A-3

20 LF	CLARKSBURG ROAD - STA.210+71 TO STA.210+91
-------	--

#### REMOVAL OF EXISTING CURB (ANY TYPE)

11 LF	CLARKSBURG ROAD - STA.209+74 RT TO STA.209+86 RT
10 LF	CLARKSBURG ROAD - STA.210+65 RT TO STA.210+75 RT

#### KEY MAP



#### REMOVAL OF EXISTING SIDEWALK

1 CY	CLARKSBURG ROAD - STA.210+13 LT TO STA.210+19 LT
1 CY	CLARKSBURG ROAD - STA.210+46 LT TO STA.210+52 LT
1 CY	CLARKSBURG ROAD - STA.210+58 RT TO STA.210+65 RT

#### 6 INCH PERFORATED CIRCULAR PIPE LONGITUDINAL UNDERDRAIN (STD. NO. MD-387.11-01)

13 LF	CLARKSBURG ROAD - STA.210+50 RT TO STA.210+63 RT (OUTLET TO 15-1)
130 LF	CLARKSBURG ROAD - STA.206+43 RT TO STA.207+92 RT (OUTLET TO 15-1)
225 LF	CLARKSBURG ROAD - STA.207+92 RT TO STA.210+07 RT (OUTLET TO 15-2)
51 LF	CLARKSBURG ROAD - STA.209+89 LT TO STA.210+20 LT (OUTLET TO EX-15-3)
63 LF	CLARKSBURG ROAD - STA.210+45 LT TO STA.210+87 LT (OUTLET TO EX-15-4)
61 LF	CLARKSBURG ROAD - STA.210+49 LT TO STA.210+00 LT (OUTLET TO 16-2)

#### TEST PIT LOCATIONS

TEST PIT	UTILITY	TYPE	STATION	OFFSET	SURFACE EL.	TOP EL.	NORTHING	EASTING
TP-16	6" WATER		206+56.44	28.31' RT	669.78	665.08	573797.010	1232959.775

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF TRANSPORTATION ENGINEERING  
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL  
Chief, Design Section  
APPROVED  
Chief, Division of Capital Development  
Designed by: JLM Drawn by: JSC Checked by: JLM

NO.	REVISION	DATE	BY
-----	----------	------	----

#### SOIL BORING

ID	NORTHING	EASTING
SB-13	573815.46	1232970.39
SB-14	573861.60	1232989.67
SB-15	573907.74	1233008.94
SB-16	573953.87	1233028.21
SB-17	573999.88	1233047.79
SB-18	574044.99	1233069.36

#### FOUNDATION BORING

ID	NORTHING	EASTING
FB-02	573925.36	1233024.97

DATUM: NAD 83/1 Horizontal  
NAVD 88 Vertical



- NOTES:
- ADJUSTMENT OF EXISTING VISIBLE UTILITIES TO FINISHED GRADE SHALL BE INCIDENTAL TO THE PERTINENT ASPHALT/CONCRETE ITEM UNLESS OTHERWISE STATED IN THE CONTRACT DOCUMENTS.
  - USE EXPANSION JOINT MATERIAL BETWEEN SIDEWALK AND SHARED USE PATH. SEE MC-100.01, NOTE 5 FOR DETAILS.

#### ROADWAY LEGEND

- FULL DEPTH PAVING
- PAVEMENT WEDGE AND LEVELING
- FINE MILLING/OVERLAY
- PAVEMENT TO BE REMOVED
- CONCRETE DRIVEWAY/SIDEWALK
- ASPHALT SHARED USE PATH
- SWM ACCESS ROAD
- TRAFFIC FLOW ARROW

